GIORGIO 30 RMAC

CATALOGUE **2025**

YEARS TOGETHER

XS ARGOLAB NEYA DINDA

CATALOGUE 2025

SECTORS

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OUR BRANDS:















HOW TO ORDER



Telephone: +39 059 653 274 Monday to Friday from 8.30 to 12.30 and from 14.00 to 18.00.



e.mail: export@giorgiobormac.com

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PHMETERS











COMPANY WITH
QUALITY MANAGEMENT SYSTEM
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HOW TO CHOOSE

	Violab pH 50	Violab pH 60	pH 8 PRO	pH 80 PR0
Resolution	0,01 pH	0,01 pH	0,001 pH	0,001 pH
Display	coloured LCD	coloured LCD	Coloured graphic	Coloured graphic
GLP calibration	0	•	•	•
Calibration password	0	0	•	•
Calibration points	3	3	5	5
Calibration due alarm	0	•	•	•
Electrode status indication	0	0	•	•
Selective ION	0	0	0	•
Data logger	0	•	•	•
PC / Printer connection	0	•	•	•
Analog view	0	0	•	•
Alarm settings	0	0	•	•
Multilanguage	0	0	•	•
Account manager + audit trail	0	0	0	•
External keyboard	0	0	0	•



pH80 PR0

- O Resolution 0,1 / 0,01 / 0,001 pH
- O Advanced user management (4 levels , 15 profiles)
- O Data logger, 8000 data memory in GLP
- O Analysis Menu for data traceability + Audit trail
- O Customisable print templates
- O Multiview screen

pH meter, digital benchtop ionmeter for advanced laboratory analyses.

Automatic pH calibration (6 buffer families) or manual, on 5 values.

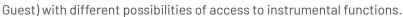
ISE calibration from 2 to 5 points.

Automatic and manual ORP calibration (1 point).

Calibration due warning and/or measurement block.

Alarm setting and display functions in analogue, 'Hold' and 'Stability' format with titration mode (Tit) and time stability for ISE, self-diagnosis messages.

Advanced user management (Admin, Manager, User,



Different data logger modes (Manual, Automatic, Min/Max, Delta value).

Analysis menu for complete editing of your measurements: you can enter all useful information about the sample and test.

Multiview screen (up to 6 user-selectable parameters can be displayed simultaneously).

Customisable print templates. Multilingual Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).

Free Data-Link+ software available at www.xsinstruments.com for PC data management, including Audit Trail.

 $2\,\mbox{USB}$ outputs for external keyboard and PC connection. RS232 port for printer connection.

Independently controlled magnetic stirrer (optional).

Measuring range:

pH: -2,000...20,000 (0,001 pH) **mV:** -2000...+2000 (0,1-1 mV)

ISE: 0,001...19999ppm

ORP: -2000...+2000 mV (0,1 - 1 mV) Temperature: -30...130,0 °C (0,1 °C)

Equipped with

S7/BNC cable, NT 55 temperature probe, electrode holder stand, coloured buffer solutions, external keyboard, USB cable and multisocket power supply.

Name	Description	P/N
pH 80 PRO STIRRER	Complete with digital electrode XS Standard DHS, magnetic stirrer with adjustable speed	50101392
pH 80 PRO STIRRER	Complete with electrode XS Standard, magnetic stirrer with adjustable speed	50101402
pH 80 PRO STIRRER	Without electrode, with magnetic stirrer with adjustable speed	50101412
pH 80 PRO BASIC	Complete with digital electrode XS Standard DHS, without magnetic stirrer	50101442
pH 80 PRO BASIC	Complete with electrode XS Standard S7, without magnetic stirrer	50101422
pH 80 PRO BASIC	Without electrode and magnetic stirrer	50101432
KEYBOARD	External soft keyboard with USB cable for 80+ Series	50001462
IQ-OQ MANUAL 80 SERIES	Printed manual IQ-0Q for XS 80 PRO Series	50001472





pH 8 PRO

- O Resolution 0,1 / 0,01 / 0,001 pH
- O Backlit colour graphic display
- O Automatic temperature compensation
- O Data logger, 1000 data memory in GLP
- Numerical password



Digital benchtop pH meter.

Automatic pH calibration (5 values) on different standard buffer,

or custom (2 values).

Automatic and manual 1-point ORP calibration.

Recall and printout of calibration data. Graphical display of electrode status.

Calibration due warning and/or measurement block.

Alarm setting and analogic view, "Stop-reading" and 'Stability' with titration mode (Tit), self-diagnosis messages.

Numeric password for protecting saved data and calibration management.

Data logger up to 1000 data in GLP with possibility of sending to printer or PC.

Multilanguage Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).

Free Data-Link+ software at www.xsinstruments.com for PC data management.

USB output for PC connection and RS232 port for printer connection.

Independently controlled magnetic stirrer (optional).

Measuring range:

pH: -2,000...16,000 (0,001 pH) mV: -2000...+2000 (0,1-1 mV) ORP: -2000...+2000 (0,1 - 1 mV) Temperature:-20...120,0 °C (0,1 °C)

Equipped with:

S7/BNC cable, NT 55 temperature probe, electrode holder stand, coloured buffer solutions, USB cable and multi-socket power supply.

Name	Description	P/N
pH 8 PRO STIRRER	Complete with digital electrode XS Standard DHS, magnetic stirrer with adjustable speed	50101252
pH 8 PRO STIRRER	Complete with electrode XS Standard, magnetic stirrer with adjustable speed	50101232
pH 8 PRO STIRRER	Without electrode, with magnetic stirrer with adjustable speed	50101242
pH 8 PRO BASIC	Complete with digital electrode XS Standard DHS, without magnetic stirrer	50101192
pH 8 PRO BASIC	Complete with electrode XS Polymer, without magnetic stirrer	50101202
pH 8 PRO BASIC	Without electrode and magnetic stirrer	50101212
IQ-OQ MANUAL SERIES 8	Printed manual IQ-0Q for XS 8 PRO Series	50001492

ACCESSORIES SERIES	S 8 / 80 Description	P/N
MAGNETIC STIRRER	Adjustable speed, with electrode holder and connection cable	50001132
PRINTER RS 232	External printer with normal paper for XS 60 VioLab / 8 / 80 series	50001502
POWER SUPPLY	Power supply 12V/1A for XS 8 PRO and 80 PRO series	50001512



pH 60 Violab

- **Resolution** 0,1 / 0,01 pH
- O Automatic and manual temperature compensation
- O Data logger auto and manual, up to 1000 savings in GLP
- O Automatic calibration up to 3 points
- O DHS digital sensors management

Professional benchtop pH meters with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.

 $\label{eq:management} \mbox{Management of DHS digital sensors}.$

Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

 $\begin{tabular}{lll} \textbf{Automatic pH calibration} & with USA and NIST buffers, up to 3 points and 2 \\ points defined by the user. \end{tabular}$

Automatic ORP calibration on 1 point.

Measurement **stability indication** and possibility to select 3 stability levels. All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.

GLP function: Date and time, recall of calibration data

and function "Calibration due".

 ${\bf Data\ logger\ up\ to\ 1000\ savings},\ {\bf manual\ and\ automatic},\ {\bf PC\ connection\ via\ micro-USB}.$

Data-Link + software available at www.xsinstruments.com.

RS 232 external printer connection





Measuring range:

pH: -2,00...16,00 (0,01 pH) mV: -1000...+1999 (0,1-1 mV) ORP: -1000...+1900 (0,1-1 mV) Temperature:-10...110,0 °C (0,1 °C)



Equipped with:

Electrode holder stand, pH buffer solutions, USB cable, power supply and instructions for use.

Name	Description	P/N
pH 60 VIOLAB DHS ELECTRODE	Complete with digital electrode XS 201T DHS, with integrated temperature sensor	50101102
pH 60 VIOLAB ANALOG ELECTRODE	Complete with electrode XS 201 T , with integrated temperature sensor	50101092
pH 60 VIOLAB WITHOUT ELECTRODE	With accessories, S7-BNC cable, temperature sensor NT 55, without electrode	50101112
PRINTER RS 232	External printer with normal paper for XS 60 / 8 / 80 series	50001502



pH 50 Violab

- **Resolution** 0,1 / 0,01 pH
- O Automatic and manual temperature compensation
- O Coloured backlit high definition **LCD display**
- O Automatic calibration up to 3 points
- O DHS digital sensors management

Professional benchtop pH meter with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.

Management of **DHS digital sensors**.

Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.

Automatic ORP calibration on 1 point.

Measurement **stability indication** and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.







Colored LCD display

Measuring range:

pH: 0,00...14,00 (0,01 pH) mV: -1000...+1000 (1 mV) ORP: -1000...+1000 (1 mV) Temperature: 0...100,0 °C (0,1 °C)

Equipped with:

Electrode holder stand, pH buffer solutions, power supply and instructions for use.

Name	Description	P/N
pH 50 VIOLAB DHS ELECTRODE	Complete with digital electrode XS 201 T DHS, with integrated temperature sensor	50101032
pH 50 VIOLAB ANALOG ELECTRODE	Complete with electrode XS 201 T , with integrated temperature sensor	50101002
pH 50 VIOLAB WITHOUT ELECTRODE	With accessories, S7-BNC cable, temperature probe NT 55, without electrode	50101012



pH 70 **√**io

- **Resolution** 0,1 / 0,01 pH
- O Coloured backlit high definition LCD display
- O Automatic and manual temperature compensation
- O Data logger auto and manual, up to 1000 savings in GLP
- O GLP functions
- O DHS digital sensors management

Professional portable pH meter with **innovative high-resolution colour display**, suitable to work in any conditions, thanks to the automatic and manual brightness adjustment.

Possibility to select the parameters you want to show.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Measurement **stability indicator** and possibility of selecting 3 levels of stability.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connect via micro-USB.

Data-Link + software available from www.xsinstruments.com.





Measuring range:

pH: -2,00...16,00 (0,01 pH) mV: -1000...+1999 (0,1 - 1 mV) ORP: -1000...+1900 (0,1 - 1 mV) Temperature: -10...+110,0 (0,1°C)

Equipped with:

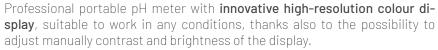
coloured buffer solutions of pH, USB cable and power supply, instructions for use and plastic carrying case.

Name	Description	P/N
pH 70 VIO DHS ELECTRODE	Complete with digital electrode XS 201 T DHS, with integrated temperature sensor	50110182
pH 70 VIO ANALOG ELECTRODE	Complete with electrode XS 201 T , with t integrated emperature sensor	50110112
pH 70 VIO WITHOUT ELECTRODE	With accessories, S7-BNC cable, temperature probe NT 55, without electrode	50110122
pH 70 VIO FOOD DHS	Complete with penetration digital electrode XS 2 Pore T DHS , for food applications	50110192
pH 70 VIO	Complete with penetration electrode XS 2 Pore T , for food applications	50110162



pH 7 **√**io

- **Resolution** 0,1 / 0,01 pH
- O Coloured backlit high definition **LCD display**
- O Automatic and manual temperature compensation
- O DHS digital sensors management.



Possibility to select the parameters you want to show.

The guide onboard in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Measurement stability indicator and possibility of selecting 3 levels of stability.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.





Measuring range:

pH: 0,00...14,00 (0,01 pH) mV: -1000... + 1000 (1 mV) ORP: -1000...+1000 (1 mV) Temperature: 0...+100,0 (0,1°C)

Equipped with:

coloured buffer solutions of pH, instructions for use and plastic carrying case.



Magnetic support

Name	Description	P/N
pH 7 VIO DHS ELECTRODE	Complete with digital electrode XS 201T DHS, with integrated temperature sensor	50110072
pH 7 VIO ANALOG ELECTRODE	Complete with electrode XS 201 T , with integrated temperature sensor	50110012
pH 7 VIO WITHOUT ELECTRODE	With accessories, S7-BNC cable, temperature probe NT 55, without electrode	50110022
pH 7 VIO FOOD DHS	Complete with penetration digital electrode XS 2 Pore T DHS , for food applications	50110082
pH 7 VIO	Complete with penetration electrode XS 2 Pore T , for food applications	50110032
pH 7 VIO	Complete kit included pH GEL electrode plastic body 1 mt cable with BNC	50110062



ACCESSORIES pH

pH ELECTRODES

Name	Description	P/N
XS STANDARD T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Glass body and cylindrical membrane for general applications. Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. Included with serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature -10100 °C	32200123
XS STANDARD PH ELECTRODE	pH Electrode combined with S7 head. Glass body, for general use. Refillable KCI 3M Electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ mm) 120x 12 - pH 014 - Temperature -10100 °C.	32200363
XS POLYMER S7	Combined pH Electrode S7 head . Glass Body for general use. Cylindrical membrane. Polymer filling, open pore. For a fast response with high accuracy in samples that might contaminate normal diaphragms . Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature -1080 °C	32200223
201 T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Plastic body for general use. Polymer Filling, ceramic diaphragm. Maintenance-free. Dimensions (Lx∅) mm 120x12. pH 014 - Temperature 060 °C	32200103
201T PH ELECTRODE	Combined pH electrode with NTC temperature sensor integrated. Plastic body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature 060 °C	50002002
201T / 5 PH ELECTRODE	Combined pH electrode with NTC temperature sensor integrated. Plastic body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 5 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature 060 °C	50002022
XS 2 PORE T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Glass Body. Filled with polymer, maintenance-free. Penetration tip, Ideal for meats and cheese samples. Dimensions (LxØ) mm 35x6 - pH 014, Temperature 060 °C	32200113
XS 2 PORE T BNC + RCA	Glass Body. Filled with polymer, maintenance-free. With temperature sensor integrated NTC 30 KΩ, Penetration tip. Ideal for meats and cheese samples Fixed cable 1 mt length, pH 014, Temperature 060 °C	32200323
pH GEL BNC + RCA	pH electrode GEL, double junctioin, double diaphragm pH 014, Temperature 060 °C Cable fix / BNC	32105223

REDOX ELECTRODES

REDOX ELECTRODE REDOX	Fix cable 1 m , BNC connector, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Range ± 1.000 mV, Temperature 060 °C. Dimensions (LxØ) 120 x 12 mm	32105302
REDOX / 5 ELECTRODE REDOX	Fix cable 5 m , BNC connector, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Range ± 1.000 mV, Temperature 060 °C. Dimensions (LxØ) 120 x 12 mm	32105102

CONNECTING CABLE

Connecting cable with **S7 head** and BNC plug for XS meters.

Diameter 3 mm, lenght 1 m.

Name	Description		P/N
BNC	Cable S7-BNC		33551733



STORAGE SOLUTION

Name	Pack	P/N
Storage solution for electrodes	55 ml	32208043
Storage solution for electrodes	500 ml	32208053

TEMPERATURE PROBES

NT 55 TEMPERATURE SENSOR	Temperature probe NTC 30 K Ω for XS instruments, for liquids and air	50002012
NT 7P TEMPERATURE SENSOR	Temperature probe NTC 30 KΩ, penetration tip , diameter 4 mm, cable fix 1 m	50011122

ACCESSORIES

1	Name [Description P/N	

ECOSTIRMAGNETIC STIRRER

Variable speed magnetic stirrer complete with electrode holder, magnetic stirring rod and main power supply



22001953

ELECTRODE HOLDER MOD: 3900

Flexible electrode holder



50000112

PRINTER

External printer with normal paper for XS 8 / 80 SERIES XS VIOLAB 60 power supply and RS 232 cable



50001502

POWER SUPPLY

Power supply and cable for XS Vio portable series



50110172



PX Vio

NEW PH - mV SIMULATOR

- OpH/mV selection
- O USA/NIST standard pH buffer simulation
- O 32 preset pH and mV values
- O 5 pH values + 5 mV values settable by the user
- O High impendence input test
- O Large, easy-to-read display
- O Intuitive controls
- O Ergonomic, one-handed operation
- O Robust, splash-proof construction
- O Battery level indication

The large, high-definition colour LCD display allows immediate visualisation of all the information and parameters needed to use the instrument.

In addition to pH, simulation of the most common REDOX / ORP solution values, even at different temperatures thanks to the stored temperature tables.

High impedance simulation verifies the efficiency of the pH meter input circuit and the good insulation of the pH/RX electrode connection cable.

In automatic mode, the simulator allows the following values to be selected: $\mathbf{p}\mathbf{H}$

- USA buffers: 1,68 / 4,01 / 7,00 / 10,01 / 12,45
- NIST buffers: 1,68 / 4,00 / 6,86 / 9,18 / 12,46

mV / ORP solutions

- 1900 / 900 / 177 / 0 / -177 / -900 / -1900 mV
- 200 / 250 / 468 / 475 / 650 mV

(Even at different temperatures)

The keyboard is splash-proof and designed for simple and immediate operation.







The KIT INCLUDES
Instrument, BNC-BNC cable.
Coloured pH buffer solutions,
user manual, test report, Hard suitcase.

	Name	Description	P/N
NEW	PX COMPLETE KIT	Simulator in suitcase + cables (BNC - BNC/BNC - DIN / BNC - S7 / BNC - open wires)	50111322
NEW	PX	Simulator in suitcase	50111312
	S7 MALE - BNC CABLE	Useful for checking connecting cables	33550813
	BNC - BNC CABLE		33550833
	BNC - DIN CABLE		33550843
	BNC CABLE - OPEN WIRES		33550823

CONDUCTIVITY METERS











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HOW TO CHOOSE

	Violab COND 50	Violab COND 60	COND 8 PRO	COND 80 PRO
COND and TDS	•	•	•	•
Salinity	0	•	•	•
Resistivity	0	0	0	•
Ultra pure water compensation	0	0	0	•
Display	colour backlit LCD	colour backlit LCD	Colour graphic	Colour graphic
GLP Calibration	0	•	•	•
Calibration password	0	0	•	•
Calibration points	4	4	4	4
Calibration due alarm	0	•	•	•
Electrode status indication	0	0	•	•
Data logger	0	•	•	•
PC / printer connection	0	•	•	•
Multilanguage menu	0	0	•	•
Account manager + audit trail	0	0	0	•
External keyboard	0	0	0	•



COND 80 PRO

- O Resolution 0,01 µS 4-rings sensor
- O Automatic and manual **temperature compensation**
- O Advanced user management (4 levels, 15 profiles)
- O Data logger, 8000 data memory in GLP
- O Menu Analysis for data tracking + Audit Trail
- O Customisable print templates
- Multiview

Digital benchtop **conductivity meter** for advanced laboratory analysis. **Automatic calibration up to 4 conductivity standards** (84, 1413 μ S, 12.88 mS, 111.8 mS) from 1 to 4 points with calculation of different cell constants or 1 point of user's

choice.

Automatic scale change, automatic and manual temperature compensation $(0...100,0\,^{\circ}\text{C})$.

Reference temperature (15...30 °C), Linear (0.00...10.00%) and non-linear temperature coefficient for ultrapure water. Compatible with 4-rings and 2-rings cells, with indication of the selected constant.

Calibration due warning and/or measurement lockout.

Alarm setting and analogic view, 'stop-reading', stability indication, self-diagnosis messages.

Advanced user management (Admin, Manager, User, Guest) with different permissions.

Data logger modes: Manual, Automatic, Min/Max, Delta value.

Analysis menu for complete editing of your measurements: you can enter all useful information on the sample and test.

Multiview (up to 6 user-selectable parameters can be displayed simultaneously).

Customisable print templates. Multilingual Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).

Free Data-Link+ software available at www.xsinstruments.com for PC data management, including Audit Trail.

 $2\ \mathsf{USB}$ outputs for external keyboard and PC connection. RS232 for printer connection.

Independently controlled magnetic stirrer (optional).

Measuring range:

Cond: $0.1 \mu S ... 1 S (0.01 \mu S - automatic)$

TDS: 0,1 mg/l...500,0 g/l Salinity: 0,1 ppm...100,0 ppt Resistivity: 1,00 Ω ...10,00 M Ω Temperature: -30... +130,0 (0,1 °C)

Equipped with:

Electrode holder stand, conductivity standards, external keyboard, USB cable, multi-socket power supply and user manual.



Name	Description	P/N
COND 80 PRO STIRRER	Complete with conductivity cell EPT 4 with four rings , integrated temperature sensor , and magnetic stirrer with adjustable speed	50103392
COND 80 PRO STIRRER	Complete with EC cell VPT 1 glass/platinum (C=1) with integrated temperature sensor , and magnetic stirrer with adjustable speed	50103402
COND 80 PRO STIRRER	Without EC cell, with magnetic stirrer with adjustable speed	50103412
COND 80 PRO	Complete with conductivity cell EPT 4 with four rings and integrated temperature sensor , without magnetic stirrer	50103442
COND 80 PRO	Complete with EC cell VPT 1 glass/platinum (C=1) with integrated temperature sensor , without magnetic stirrer	50103422
COND 80 PRO	Without EC cell and magnetic stirrer	50103432
KEYBOARD	Soft external keyboard for XS 80 PRO Series	50001462
IQ-OQ MANUAL 80 SERIES	Paper manual IQ-0Q for XS 80 PRO Series	50001472



COND 8 PRO

- O Resolution 0,01 μS
- O Coloured backlit high definition LCD display
- O Automatic and manual temperature compensation
- O Data logger auto and manual, up to 1000 savings in GLP

Digital benchtop conductivity meter.

Automatic calibration up to 4 conductivity standards

(84, 1413 μS, 12.88 mS, 111.8 mS) from 1 to 4 points with calculation

of different cell constants or 1 point of user's choice.

Recall and printout of calibration data.

Automatic scale change, automatic and manual temperature compensation (0...100.0

°C). Reference temperature (15...30 °C).

Linear temperature coefficient (0.00...10.00%).

 $2\ \text{rings}$ cell technology with selection and indication of cell constant (0.1-

1.0 - 10).

Calibration due warning and/or measurement block.

Alarm setting and analogic view, "Stop reading", stability

indication, self-diagnosis messages.

Numeric password for protection of saved data and

calibration management.

Data logger up to 1000 data in GLP with possibility of

printing and data download to PC.

Multilingual Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).

Free Data-Link+ software available at www.xsinstruments.com for

PC data management data to PC.

 ${\sf USB\ output\ for\ PC\ connection.}$

RS232 for printer connection. Independently controlled magnetic stirrer (optional).



Cond: $0.1 \mu S ...500 mS (0.01 \mu S - automatic)$

TDS: 0,1 mg/l...200,0 g/l Salinity: 0,1 ppm ...100,0 ppt Temperature: -20...+120,0 (0,1 °C)

Equipped with:

Electrode holder stand, conductivity standards, USB cable, multi-socket power supply and user manual.

Name	Description	P/N
COND 8 PRO STIRRER	Complete with epoxy EC cell 2301T (C=1) integrated temperature sensor, and magnetic stirrer with adjustable speed	50103232
COND 8 PRO STIRRER	Without EC cell, with magnetic stirrer with adjustable speed	50103242
COND 8 PRO BASIC	Complete with epoxy EC cell 2301T (C=1) integrated temperature sensor, without magnetic stirrer	50103202
COND 8 PRO BASIC	Without EC cell and magnetic stirrer	50103212
IQ-OQ MANUAL SERIES 8	Paper manual IQ-0Q for XS 8 PRO Series	50001472

ACCESSORIES 8 / 80 PRO SERIES

Name	Description	P/N
PRINTER	External printer with normal paper for XS VIOLAB 60 - 8 PRO - 80 PRO , power supply and RS232 cable included	50001502
STIRRER	Magnetic stirrer with adjustable speed for XS 8 PRO and 80 PRO series, complete with electrode holder and connecting cable	50001132



COND 60 Violab

- Resolution 0,01 µS
- O Coloured backlit high definition LCD display
- O Automatic and manual **temperature compensation**
- O Data logger auto and manual, up to 1000 savings in GLP
- O PC/Printer connection

Professional benchtop conductivity meter with innovative backlit high definition coloured LCD display, with possibility of brightness adjustment. Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic conductivity calibration up to 4 points (84; 147; 1413 µS e 12,88; 111,8 mS) or 1 point custom.

Automatic resolution, reference temperature from 15 to 30 $^{\circ}$ C, and selectable cell costant (C= 0,1; 1; 10).

 $\label{location} \textbf{Indication of the calibrated points}, with icons.$

Measurement stability indication.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and **self-diagnosis messages**.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic,



PC connection via micro-USB. **Data-Link +** software available at www.xsinstruments.com.

RS 232 external printer connection.

Measuring range

Cond: $0.1 \,\mu\text{S} \dots 200 \,\text{mS} (0.01 \,\mu\text{S} - \text{automatic})$

TDS: 0,1 mg/l...200 g/l Salinity: 0,1 ppm ... 100 ppt Temperature: - 10...+ 110,0 (0,1 °C)



Equipped with:

Electrode holder stand, conductivity standards, USB cable, power supply and instructions for use.

Name	Description	P/N
COND 60 VIOLAB WITH EC CELL	Complete with conductivity cell2301T , integrated temperature sensor, 1 m cable	50103072
COND 60 VIOLAB WITHOUT EC CELL	With accessories, without conductivity cell	50103082



COND 50 Vio Lab

- O Resolution 0,01 μS
- O Coloured backlit high definition LCD display
- Automatic and manual **temperature compensation**

Professional benchtop conductivity meter with innovative backlit high definition coloured LCD display, with possibility of brightness adjustment. Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic conductivity calibration up to 4 points (84; 147; 1413 μ S e 12,88; 111,8 mS) or 1 point custom.

Automatic resolution, reference temperature from 15 to 30 $^{\circ}$ C, and selectable cell costant (C= 0,1; 1; 10).

Indication of the calibrated points, with icons.

Measurement stability indication.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and **self-diagnosis messages.**



Measuring range

Cond $0.1 \,\mu\text{S} \dots 200 \,\text{mS} \, (0.01 \,\mu\text{S} - \text{automatic})$

TDS:: 0,1 mg/l...200 g/l Temperature: 0...+100,0 (0,1 °C)



Equipped with:

Electrode holder stand, conductivity standards and instructions manual.

Name	Description	P/N
COND 50 VIOLAB WITH EC CELL	Complete with conductivity cell 2301T, integrated temperature sensor, 1 m cable	50103002
COND 50 VIOLAB WITHOUT EC CELL	With accessories, without conductivity cell	50103012



Cond 70 Vio

- O Resolution 0,01 μS
- O Automatic and manual temperature compensation
- O Automatic calibration on 4 standard points or 1 custom
- O Data logger auto and manual, up to 1000 savings in GLP
- O Coloured backlit high definition **LCD display**
- O GLP functions

Professional conductivity meter with innovative **backlit high definition coloured LCD display**, suitable to work in any conditions, thanks also to the possibility to adjust automatically and manually contrast and brightness of the display.

Possibility to select the parameters you want to show.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic calibration of conductivity up to 4 points or 1 point custom defined by the user.

Adjustable reference temperature and selectable cell constant.

Indication with icons of the calibrated points.

Measurement stability indicator.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.

GLP function: Date and time, recall of calibration data and function **"Calibration due".**

Data logger up to 1000 savings, manual and automatic, PC connection via **micro-USB**.

Data-Link + software available at www.xsinstruments.com.

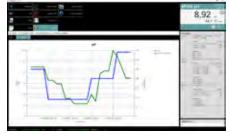




Measuring range:

Cond: $0.1 \,\mu\text{S} \dots 200.0 \,\text{mS} (0.01 \,\mu\text{S} - \text{automatic})$

TDS: 0,1 mg/l ... 200,0 g/l Salinity: 0,1 ppm ... 100 ppt Temperature: -10...+110,0 (0,1 °C)



Data Link+ Software

Equipped with:

Conductivity standards, USB cable, power supply, user manual and carrying case.

Name	Description	P/N
COND 70 VIO	Complete with conductivity cell 2301T with integrated temperature sensor . Cable 1 m	50110512
COND 70 VIO	With accessories, without conductivity cell	50110522

Cono

Cond 7 Vio

- O Resolution 0,01 μS
- O Automatic and manual temperature compensation
- O Coloured backlit high definition **LCD display**
- O Automatic calibration on 4 standard points and 1 custom
- O 3 selectable cell constants

Professional portable conductivity meter with innovative high resolution color display for excellent data display in all light conditions, thanks also to the possibility of adjusting display contrast and illumination.

Measurement of Conductivity, TDS, with Temperature display.

Online help in setup and calibration allows easy and immediate use of the device.

Automatic conductivity calibration up to 4 points or 1 user-defined point.

Adjustable reference temperatures (15...30 $^{\circ}$ C) and selectable cell constant (C= 0.1 - 1 - 10).

Indication of calibrated points with icons. Measurement stability indicator.

All operations are constantly kept under control and signaled to the operator trough the colored LED above the display and auto-

Measuring range:

diagnosis messages.

Cond: $0.1 \,\mu\text{S} \dots 200.0 \,\text{mS}$ ($0.01 \,\mu\text{S} - \text{automatic}$)

TDS: 0,1 mg/l ... 200,0 g/l Temperature: 0 ... 100,0 (0,1 °C)





Cond 7 Vio Kit

Equipped with:

Conductivity standards, user manual and carrying case.

Name	Description	P/N
COND 7 VIO	Complete with conductivity cell 2301T with integrated temperature sensor. 1 m cable	50110412
COND 7 VIO	With accessories, without conductivity cell	50110422



ACCESSORIES

CONDUCTIVITY CELLS

Name	Description	P/N
EPT 4 EC CELL	Cell in epoxy body C= 0.55, fixed cable, Multipin connector only for 80 PRO Series. Measuring range : 0.1 μ S1S, Temperature 0+80 °C,	50003362
VP 1 EC CELL	Cell in glass body with platinum plates C=1 , fixed cable 1 mt. with BNC plug. Measuring range: 10µS10 mS - Temperature 080 °C	50004062
VPT 1 EC CELL	Cell in glass body with platinum plates C=1, with integrated temperature sensor. Fixed cable 1 mt., BNC + RCA Cinch plug. Measuring range: 10µS100 mS – Temperature 080 °C	50003352
VPT 01 EC CELL	Steel and PVC cell, C=0,1, with integrated temperature sensor. Fixed cable 1 mt., BNC + RCA plug. Measuring range: 0,1µS1 mS – Temperature 060 °C	50004012
VPT 10 EC CELL	Cell in glass body with platinum plates C=10, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS200 mS	50004072
VPT 10 H EC CELL	Cell in glass body with platinum plates C=10, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS500 mS. Only for XS REVIO and COND 80 PRO	50003372
2301 T EC CELL	Cell in epoxy body C=1, with integrated temperature sensor. Fixed cable 1 mt. BNC+RCA cinch plug. Measuring range: 10µS200 mS – Temperature 060 °C	50004002
2301 T / 5	Cell in epoxy body C=1, with integrated temperature sensor. Fixed cable 5 mt. BNC+RCA cinch plug. Measuring range: 10µS200 mS – Temperature 060 °C	50004022
VPT SOIL EC CELL	Conductivity cell with integrated temperature sensor and penetration tip, C=1, for soil measurement, cable 1,5 m.Measuring range 10 µS50 mS	50004082
EPT 1 EC CELL	Cell in epoxy body C==1, with integrated temperature sensor. Fixed cable 1 m, BNC-Cinch. Measuring range 10μS100 mS. For oily or viscous samples.	50003382

TEMPERATURE PROBE

Name	Description	P/N
NT 55 TEMPERATURE SENSO	Temperature sensor NTC 30KΩ for liquids and air	50002012

BUFFER SOLUTIONS

With **certificate of analysis** downloadable from www.xsinstruments.com

O SACHETS **25 ml**

Name	Description	P/N
EC 1413 μS/cm (25°C)	Pack of 20 sachets, with certificate of analysis	51102053
EC 12880 μS/cm (25°C)	Pack of 20 sachets, with certificate of analysis	51102063
SET CAL COND	Includes 10 x EC 1.413 μS and 10 x EC 12.880 μS	51102223
COND REPLACEMENT	Includes $7 \times$ EC 1.413 μ S, EC 12.880 μ S and $6 \times$ deionized H20	51102253
H2O	Pack of 20 sachets of deionized water	51102093

OBOTTLE **500 ml**, with calibration compartment

Name	Description	P/N
84 μS/cm (25°C)	N.I.S.T. Accuracy ±1%	51100613
147 μS/cm (25°C)	N.I.S.T Accuracy ±1%	51100623
1413 µS/cm (25°C)	1278 µS/cm(20°C) - N.I.S.T. Accuracy ±1%	51100633
12.880 µS/cm (25°C)	11670 μS/cm(20°C) - N.I.S.T. Accuracy ±1%	51100643



Name	Description		P/N
ECOSTIR STIRRER	Magnetic stirrer, adjustable speed, with magnetic bar and power supply.		22001953
ELECTRODE HOLDER MOD: 3900	Flexible electrode holder		50000112
PRINTER	External printer with normal paper for XS 8 / 80 SERIES XS VIOLAB 60 power supply and RS 232 cable	(-)::(-)	50001502
CASE IP67	IP 67 waterproof case for Vio portable instruments		50010972
SOFT CASE	Bag with adjustable shoulder strap in eco-sustainable material for Vio portable instruments		50010962
SUPPORT VIO - PORTABLE	Magnetic support for Vio portable instruments		50110252
POWER SUPPLY VIO - PORTABLE	Power supply and cable for XS Revio / 70 Vio		50110172
POWER SUPPLY VIOLAB - BENCHTOP	Power supply and cable for XS VioLab benchtop series		50001052



DATA LINK +



On the software are shown all the information about the instruments and calibrations, like slope and offset. It is possible to view all saved data in graphic form, to see the trend, or in table form.

It is also possible to export data in Excel and in PDF.

On the top right corner the real time view allows to check measurement directly on the PC.

Multilanguage: English - Italian - French - German - Spanish - Portuguese.

Functions for the remote control of the instruments, like data saving and memory reset.

Software Data Link + available for free on our website www.xsinstruments.com.



Brochures XS Vio and XS VioLab are available on our website www.ysinstruments.com

MULTIPARAMETERS











COMPANY WITH
QUALITY MANAGEMENT SYSTEM
UNI EN ISO 9001:2015
CERTIFIED BY CERTIQUALITY



HOW TO CHOOSE

	Violab PC50	Violab PC 60	PC 8 PRO	PC 80 PRO
pH Resolution	0,01 pH	0,01 pH	0,001 pH	0,001 pH
ION	0	0	0	•
COND e TDS	•	•	•	•
Salinity	0	•	•	•
Resistivity	0	0	0	•
Ultra pure water compensation	0	0	0	•
Display	colour backlit LCD	colour backlit LCD	colour graphic	colour graphic
Analogic view	0	0	•	•
GLP Calibration	0	•	•	•
Calibration password	0	0	•	•
Calibrations points	3	3	5	5
Calibration due alarm	0	•	•	•
Electrode status indication	0	0	•	•
Data logger	0	•	•	•
PC / Printer connection	0	•	•	•
Multilanguage	0	0	•	•
Account manager + Audit trail	0	0	0	•
External keyboard	0	0	0	•

Royal Many S

PC80PRO

- O Resolution 0.1 / 0.01 / 0.001 pH 0.01 µS
- O Automatic and manual temperature compensation
- O Advanced user management (4 levels, 15 profiles)
- O Data logger, 8000 data memory in GLP
- O Menu Analysis for data tracking + Audit Trail
- O Customisable print templates
- Multiview



Multiview display (up to 6 parameters simultaneously).

Automatic or manual 5-points pH calibration with automatic standard recognition.

ISE calibration from 2 to 5 points. Automatic or manual ORP calibration on 1 point.

Automatic EC calibration up to 1 to 4 points with recognition of standards and calculation of different cell constants + 1 manual point.

Automatic scale, automatic and manual temperature compensation (0...100.0 °C).

Reference temperature (15...30 °C), linear (0.00...10.00%) and non-linear temperature coefficient for ultrapure water.

Compatible with 4-rings and 2-rings cells, with indication of selected constant.

Calibration due warning and/or measurement block.

Alarm setting and display functions in analogue format, "Stop-reading", stability indication, self-diagnosis messages.

Advanced management of Users (Admin, Manager, User, Guest) with different permissions.

Different data logger modes (Manual, Automatic, Min/Max, Delta value).

Analysis menu for complete editing of your measurements: you can enter all useful informations about the sample and test.

Customisable print templates. Multilanguage Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).

Free Data-Link+ software at www.xsinstruments.com for PC data management, including Audit Trail.

2 USB outputs for external keyboard and PC connection. RS232 port for printer connection.

Independently controlled magnetic stirrer (optional).

Measuring range:

pH: -2,000...20,000 (0,001 pH) mV: -2000...+2000 (0,1 - 1 mV) ORP: -2000...+2000 (0,1-1 mV)

ISE: 0.001...19999 ppm

Cond: 0,1 uS ...1 S (0,01 uS - automatic)

TDS: 0,1 mg/l...500,0 g/l Salinity: 0,1 ppm...100,0 ppt Resistivity: 1 Ω ...10 M Ω

Temperature:-30...130,0 °C (0,1 °C)

Equipped with:

S7/BNC cable, temperature probe NT 55, electrode holder, buffer solutions, USB

cable and power supply.

Name	Description	P/N
PC 80 PRO DHS ELECTRODE + 4 RINGS	Complete with pH XS Standard DHS, EC cell EPT 4 (C=0,55) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104302
PC 80 PRO DHS ELECTRODE + 2 RINGS	Complete with pH XS Standard DHS, EC cell VPT 1 glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104232
PC 80 PRO ELECTRODE + 4 RINGS	Complete with pH XS Standard, EC cell EPT 4 (C=0,55) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104282
PC 80 PRO ELECTRODE + 2 RINGS	Complete with pH XS Standard, EC cell VPT 1 glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104242
PC 80 PRO 4 RINGS CELL	Without pH electrode , EC cell EPT 4 (C=0,55) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104292
PC 80 PRO 2 RINGS CELL	Without pH electrode, conductivity cell VPT 1 glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104252
PC 80+ PRO PH ELECTRODE	With pH electrode XS Standard, without conductivity cell, magnetic stirrer with adjustable speed.	50104262
PC 80 PRO STIRRER	Without pH electrode, without conductivity cell, with magnetic stirrer with adjustable speed.	5010427
KEYBOARD	Soft external keyboard for XS 80 PRO Series	5000146
IQ-OQ MANUAL	Paper manual IQ-0Q for XS 80 PRO Series	50001472



PC8PRO

- O Resolution 0,1 / 0,01 / 0,001 pH 0,01 μS
- O Backlit coloured high-definition graphic display.
- O Automatic and manual temperature compensation
- O Data logger auto and manual, up to 1000 savings in GLP



Automatic pH calibration (5 values) on different standard buffer, or custom (2 values).

Automatic and manual 1-point ORP calibration.

Automatic calibration up to 4 conductivity standards (84, 1413 μ S, 12.88 mS, 111.8 mS) from 1 to 4 points with calculation of different cell constants or 1 point custom. **Recall and printout of calibration data**. Automatic scale, **automatic and manual temperature compensation** (0...100.0 °C).

Reference temperature (15...30 $^{\circ}$ C).Linear temperature coefficient (0.00...10.00%)

2-rings cell technology with selection and indication of constant (0.1 - 1.0 - 10).

Calibration due warning and/or measurement block.

Alarm setting and analogic view, "Stop-reading", stability indication, self-diagnosis messages

Security password for saved data and calibration management.

Data logger for up to 1000 data points in GLP with possibility of printing and data download to PC.

Multilanguage Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).

Free **Data-Link+** software at www.xsinstruments.com for PC data management.

USB output for PC connection. RS232 port for printer connection.

Independently controlled magnetic stirrer (optional).

Measuring range:

pH: -2,000...16,000 (0,001 pH) mV: -2000...+2000 (0,1 mV - 1 mV) ORP: -2000...+2000 (0,1-1 mV)

Cond: 0,1 µS ...500,0 mS (0,01 - automatic)

TDS: 0,1 mg/l...200,0 g/l Salinity: 0,1 ppm...100,0 ppt Temperature:-20...120,0 °C (0,1 °C)



Equipped with:

S7/BNC cable, temperature probe NT 55, electrode holder, buffer solutions, USB cable and power supply.

Name	Description	P/N
PC 8 PRO STIRRER	Complete with pH XS Standard DHS, EC cell VPT 1 glass/platinum (C=1) with tintegrated temperature sensor, magnetic stirrer with adjustable speed.	50104132
PC 8 PRO STIRRER	Complete with pH XS Standard, EC cell VPT 1 glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104142
PC 8 PRO STIRRER	Without pH electrode, conductivity cell VPT 1 glass/platinum (C=1) with integrated temperature sensor, magnetic stirrer with adjustable speed.	50104152
PC 8 PRO STIRRER	With pH electrode polymer, without conductivity cell, Temperature probe NT55, magnetic stirrer with adjustable speed	50104162
PC 8 PRO STIRRER	Without pH electrode, without conductivity cell, Temperature probe NT55, magnetic stirrer with adjustable speed	50104172
IQ-OQ MANUAL	Paper manual IQ-0Q for XS 8 PRO Series	50001492

ACCESSORIES 8 / 80

Name	Description	P/N
PRINTER	External printer, normal paper with RS 232 cable	50001502
STIRRER	Magnetic stirrer with adjustable speed for 8 and 80 Series, complete with electrode holder and connecting cable	50001132



PC 60 Violab

- O Resolution 0,1 / 0,01 pH 0,01 μS
- O Automatic and manual temperature compensation
- O Data logger auto and manual, up to 1000 savings in GLP
- O PC/Printer connection
- O DHS digital sensors management



coloured LCD display, with possibility of brightness adjustment. Management of DHS digital sensors.

Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.

Automatic ORP calibration on 1 point.

Automatic conductivity calibration up to 4 points (84; 147; 1413 µS e 12,88; 111,8 mS) or 1 point custom.

Automatic resolution, reference temperature from 15 to 30 $^{\circ}$ C, and selectable cell costant (C= 0,1; 1; 10).

Indication of the calibrated points, with icons.

Measurement **stability indication** and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.

GLP function: Date and time, recall of calibration data

and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connection via **micro-USB**.

Data-Link + software available at www.xsinstruments.com.

RS 232 external **printer connection.**



pH: -2,00...16,00 (0,01 pH) **mV:** -1000...+1999 mV (0,1 - 1 mV) **ORP:** -1000...+1900 mV (0,1 - 1 mV)

Cond: $0.1 \mu S ... 200.0 mS (0.01 \mu S - automatic)$

TDS: 0,1 mg/l...200 g/l Salinity: 0,1 ppm ... 100 ppt Temperature:-10...110,0 °C (0,1 °C).









Equipped with:

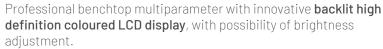
Electrode holder stand, pH and conductivity buffer solutions, USB cable, power supply and user manual.

Name	Description	P/N
PC 60 VIOLAB DHS ELECTRODE	Complete with digital pH electrode XS 201 T DHS and conductivity cell 2301T ($C=1$), both with integrated temperature sensor	50103942
PC 60 VIOLAB ANALOG ELECTRODE	Complete with pH electrode XS 201 T and conductivity cell 2301T (C=1), both with integrated temperature sensor	50103952
PC 60 VIOLAB WITHOUT ELECTRODE	With conductivity cell 2301T (C=1) with integrated temperature sensor, accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode	50103972



PC 50 Violab

- O Resolution 0,1 / 0,01 pH 0,01 μS
- O Automatic and manual **temperature compensation**
- O DHS digital sensors management



Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.

Automatic ORP calibration on 1 point.

Automatic conductivity calibration up to 4 points (84; 147; 1413 μ S e 12,88; 111,8 mS) or 1 point custom.

Automatic resolution, reference temperature from 15 to 30 $^{\circ}$ C, and selectable cell costant (C= 0,1; 1; 10).

Indication of the calibrated points, with icons.

Measurement stability indication and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.





Measuring range:

pH: 0,00...14,00 (0,01 pH) mV: -1000...+1000 (1 mV) ORP: -1000...+1000 mV (1 mV)

Cond: $0.1 \mu S ... 200 mS (0.01 \mu S - automatic)$

TDS: 0,1 mg/l...200,0 g/l

Temperature: 0...100,0 °C (0,1 °C).



Coloured backlit LCD display

Equipped with:

Electrode holder stand, pH and conductivity buffer solutions, power supply and user manual.

Name	Description	P/N
PC 50 VIOLAB DHS ELECRODE + CELL	Complete with digital pH electrode XS 201 T DHS and conductivity cell 2301T (C=1), both with integrated temperature sensor	50103892
PC 50 VIOLAB ELECTRODE + CELL	Complete with pH electrode XS 201 T and conductivity cell 2301T (C=1) , both with integrated temperature sensor	50103902
PC 50 VIOLAB WITHOUT ELECTRODE	With conductivity cell 2301T (C=1) with integrated temperature sensor, accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode	50103912

RS-ALINETS S

REVIO

- O 3 Inputs: pH / ORP / ISE Cond 02
- O Colour graphic display
- O Data logger, manual and automatic, up to 10.000 savings in GLP

Professional portable multiparameter with triple **power supply** (battery, PC, electric network) with **innovative backlit colour display**, suitable to work excellently in any conditions, thanks to the automatic and manual adjustment of contrast and brightness.

Possibility to measure pH, mV, ORP, ISE, Conductivity, TDS, Salinity, Resistivity, Dissolved Oxygen and Temperature.

The **step by step** guide in setup and calibration mode allows a simple and intuitive use of the device.

Simultaneous display of multiple parameters defined by the user.

Automatic pH calibration with USA and NIST buffers up to 5 points and 5 points defined by the user.

Automatic ORP calibration in 1 point.

Automatic calibration of conductivity up to 4 points or 1 point defined by the user.

Adjustable reference temperature and selectable cell constant.

Automatic calibration up to 2 points (0% - 100%).

Indication with icons of the calibrated points.

GLP functions: Date and time, recall of calibration data and setting of calibration deadline.

Manual and automatic data logger with possibility to download data to PC via micro-USB.

Data Link+ software available to download for free at www.xsinstruments.

Stability indicator of measurement and possibility to select 3 stability levels. All operations are constantly monitored and reported to the user through the **coloured LED** above the display and the self-diagnosis messages.







XS Revio connectors

Measuring range

pH: -2,000...20,000 (0,001 pH) mV: -2000...+2000 (0,1-1 mV) Orp: -2000...+2000 (0,1-1 mV) ISE: 0.001...19999 ppm

Cond: $0.1 \,\mu\text{S} \dots 1000 \,\text{mS} \,(0.1 \,\mu\text{S} - \text{automatic})$

TDS: 0,1 mg/l...500,0 g/l Salinity: 0,1 ppm ... 100 ppt Resistivity: 1 Ω ...10 M Ω D0: 0,0...50 mg/l(0,01 - 0,1 mg/l) Saturation: 0,0...400 % (0,1 %)

Barometric pressure: 300...1100 mbar (1 mbar)

Temperature:-30...130,0 °C (0,1 °C)

Equipped with:

Field support with 3 holes for electrodes, buffer solutions, USB cable, power supply, instructions for use and carrying case





MODELS

Name	Description	P/N
REVIO DHS KIT	Complete with digital pH electrode 201 T DHS, conductivity cell 2301 T and polarographic sensor , with integrated temperature sensor and fixed cable 3m, in carrying case.	50110952
REVIO KIT IN CARRYING CASE	Complete with pH electrode 201 T, conductivity cell 2301T and polarographic sensor , with integrated temperature sensor and fixed cable 3m, in carrying case.	50110912
REVIO KIT IN SOFT CASE	Complete with pH electrode 201 T, conductivity cell 2301T and polarographic sensor , with integrated temperature sensor and fixed cable 3m, in soft bag.	50110982
REVIO pH ELECTRODE + OXY	Complete with electrode XS 201 T and polarographic sensor , both with integrated temperature sensor and fixed cable 3m, in carrying case.	50110922
REVIO COND + OXY	Complete with conductivity cell 2301T and polarographic sensor , both with integrated temperature sensor and fixed cable 3m, cable S7-BNC and NT55 3m, in carrying case.	50110942
REVIO ONLY INSTRUMENT	Instrument in carrying case with NT55 probe with cable 3m, cable S7-BNC, and accessories	50110932
REVIO ELECTRODE + CELL	Complete with pH electrode 201 T, conductivity cell 2301T , with integrated temperature sensor and fixed cable 3m, in carrying case.	50110992

<u>NEW</u>

ACCESSORIES

ELECTRODES AND SPARE PARTS

Name	Description	P/N
201 T - DHS pH ELECTRODE - 3 m	Digital pH electrode combined with DHS technology with integrated temperature sensor. Gel filling with porous diaphragm. Maintenance-free. Fixed cable 3m. pH 014, temperature 060 °C. Dimensions (L x Ø) mm 120x12	32200153
201 T - ATC pH ELECTRODE - 3 m	Plastic body pH electrode with temperature sensor for general applications. Gel filling with porous separator Maintenance-free. Fixed cable 3 m. pH 014, temperature 060 °C. Dimensions (L x Ø) mm 120x12	50002072
2301 T EC CELL - 3 m	Conductivity cell C=1 with built-in temperature sensor, epoxy body, cable 3 m. Working range: 10µS200 mS	50004092
D07 / 3mt OXY SENSOR - 3 m	Polarographic sensor, cable 3 m, 2 replacement membranes, refill solution (30ml)	50010242
REDOX REDOX SENSOR - 3 m	Combined Redox electrode with plastic body for general applications. Fixed cable 3 m with BNC connector. Gel filling with porous separator. Maintenance-free. Working range: \pm 1.000 mV, temperature 060 °C	51004132
NT 55 T SENSOR - 3 m	Temperature probe NTC 30 K Ω , cable 3 m, for liquids and air	50002082
MEMBRANE	Kit 2 replacement membranes for sensor D07/3MT	50010252
ELECTROLYTE	Refill solution for sensor D07/3MT (30ml)	50010262
0% STANDARD	Zero Oxygen standard - 1 bottle	50010292
0% STANDARD	Zero Oxygen standard - 5 bottles pack	50010272
POWER SUPPLY	Power supply and cable for XS Revio / 70 Vio	50110172
SUPPORT	Magnetic Support for Vio portable instruments	50110252



PC 70 **V**io

- O Resolution 0,1 / 0,01 pH 0,01 μS
- O Automatic and manual temperature compensation
- O Data logger auto and manual, up to 1000 savings in GLP
- O GLP function
- O DHS digital sensors management.

Professional portable multiparameter with **innovative high-resolution colour display**, suitable to work in any conditions, thanks to the automatic and manual brightness adjustment.

Possibility to select the parameters you want to show.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Automatic calibration of conductivity up to 4 points or 1 point custom defined by the user.

Adjustable reference temperature and selectable cell constant.

Indication with icons of the calibrated points.

Measurement **stability indicator** and possibility of selecting 3 levels of stability. All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connection via micro-USB.

Data-Link + software available at www.xsinstruments.com.





PC 70 Vio kit

Measuring range:

pH: -2,00...16,00 (0,01 pH) mV: -1000...+1900 (0,1 mV / 1 mV) ORP: -1000...+1900 (0,1/1 mV)

Cond: 0,1 µS ...200,0 mS (0,01 µS - automatic)

TDS: 0,1 mg/l ... 200 g/l Salinity: 0,1 ppm ... 100 ppt Temperature:-10...110,0 °C (0,1 °C)

Equipped with:

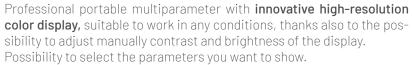
Field support with 3 holes for electrodes, coloured buffer solutions of pH and conductivity, USB cable and power supply, instructions for use and plastic carrying case.

Name	Description	P/N
PC 70 VIO DHS ELECTRODE + CELL	With digital pH electrode 201 T DHS and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m	50110872
PC 70 VIO ELECTRODE + EC CELL	With pH electrode 201 T and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m	50110812
PC 70 VIO ONLY EC CELL	Without pH electrode. With conductivity cell 2301 T, temperature probe NT55, S7-BNC cable and accessories	50110822
PC 70 VIO WITHOUT SENSORS	Without sensors, with temperature probe NT55 , S7-BNC cable and accessories	50110842



PC 7 Vio

- O Resolution 0,1 / 0,01 pH 0,01 μS
- O Automatic and manual temperature compensation
- O DHS digital sensors management.



The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Automatic calibration of conductivity up to 4 points and 1 point custom defined by the user.

Adjustable reference temperature and selectable cell constant.

Indication with icons of the calibrated points.

Measurement **stability indicator** and possibility of selecting 3 levels of stability.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.





Protected connectors

Measuring range:

pH: 0,00...14,00 (0,01 pH) mV: -1000...+1000 (1 mV) ORP: -1000...+1000 (1 mV)

Cond: 0,1 μS ...200 mS (0,01 μS - automatic)

TDS: 0,1 mg/l ... 200 g/l

Temperature:0...100,0 °C (0,1 °C)

Equipped with:

Field support with 3 holes for electrodes, coloured buffer solutions of pH and conductivity, instructions manual and plastic carrying case.

Name	Description	P/N
PC 7 VIO DHS ELECTRODE + CELL	With digital pH electrode 201 T DHS and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m	50110752
PC 7 VIO ELECTRODE + EC CELL	With pH electrode 201 T and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m	50110712
PC 7 VIO ONLY EC CELL	Without pH electrode. With conductivity cell 2301 T, temperature probe NT55 , S7-BNC cable and accessories	50110722
PC 7 VIO WITHOUT SENSORS	Without sensors, with temperature probe NT55 , S7-BNC cable and accessories	50110742



ACCESSORIES PC

PH ELECTRODE

Name	Description	P/N
STANDARD T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Glass body and cylindrical membrane for general applications. Refillable KCI 3M electrolyte. Excellent chemical resistance and easy to clean. Included with serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature -10100 °C	32200123
XS STANDARD PH ELECTRODE	pH Electrode combined with S7 head. Glass body, for general use. Refillable KCI 3M Electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ mm) 120x 12 - pH 014 - Temperature -10100 °C.	32200363
XS POLYMER S7	Combined pH Electrode S7 head . Glass Body for general use. Cylindrical membrane. Polymer filling, open pore. For a fast response with high accuracy in samples that might contaminate normal diaphragms . Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature -1080 °C	32200223
201 T DHS DIGITAL pH ELECTRODE	Digital pH electrode combined with DHS technology. Plastic body for general use. Polymer Filling, ceramic diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12. pH 014 - Temperature 060 °C	32200103
201 T PHELECTRODE	Combined pH electrode with NTC temperature sensor integrated. Plastic body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature 060 °C	50002002
201T / 5 PH ELECTRODE	Combined pH electrode with NTC temperature sensor integrated. Plastic body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 5 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature 060 °C	50002022

CONNECTION CABLE

Connecting cable with **S7 head** and BNC plug for XS meters.

Diameter 3 mm, lenght 1 m.

Name		Description	P/N
BNC	Cable S7-BNC		33551733

CONDUCTIVITY CELLS

Name	Description	P/N
2301 T EC CELL	Cell in epoxy body C=1, with integrated temperature sensor. Fixed cable 1 mt. BNC+RCA cinch plug. Measuring range: 10µS200 mS – Temperature 060 °C	50004002
2301 T / 5 EC CELL	Cell in epoxy body C=1, with integrated temperature sensor. Fixed cable 5 mt. BNC+RCA cinch plug. Measuring range: 10µS200 mS – Temperature 060 °C	50004022
VP 1 EC CELL	Cell in glass body with platinum plates C=1 , fixed cable 1 mt. with BNC plug. Measuring range: 10μS10 mS – Temperature 080 °C	50004062
VPT 1 EC CELL	Cell in glass body with platinum plates C=1, with integrated temperature sensor. Fixed cable 1 mt., BNC + RCA Cinch plug. Measuring range: 10µS100 mS – Temperature 080 °C	50003352
VPT 01 EC CELL	Steel and PVC cell, C=0,1, with integrated temperature sensor. Fixed cable 1 mt., BNC + RCA plug. Measuring range: 0,1µS1 mS - Temperature 060 °C	50004012
VPT 10 EC CELL	Cell in glass body with platinum plates C=10, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS200 mS	50004072
VPT 10 H EC CELL	Cell in glass body with platinum plates C=10, integrated temperature sensor, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS500 mS. Only for XS REVIO an XS COND 80 PRO	50003372



TEMPERATURE PROBES

Name	Description	P/N
NT 55 TEMPERATURE PROBE	Temperature probe NTC 30 KΩ for liquids and air	50002012
NT 7P TEMPERATURE PROBE	Temperature probe NTC 30 KΩ , penetration tip , diameter 4 mm, fixed cable 1 m	50011122
NT55 + CABLE	Kit Temperature probe NT 55 + cable S7/BNC, 1 m.	50002032

REDOX SENSORS

Name	Description	P/N
REDOX SENSOR	Electrode in epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Cable S7-BNC, 1 m. Dimensions (LxØ) mm 120X12 Measuring range: ± 1.000 mV, temperature 060 °C	32105302
REDOX / 5 SENSOR	Electrode in epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Cable S7-BNC, 5 m. Dimensions (LxØ) mm 120X12 Measuring range: ± 1.000 mV, temperature 060 °C	32105102

CALIBRATION KIT - SACHETS BUFFER SOLUTIONS

Name	Description	P/N
SET CAL pH BIS	It contains 10 x pH 4.01 and 10 x pH 7.00, 25 ml	51102203
SET CAL pH TRIS	It contains 7 x pH 4.01, 7 x pH 7.00, 6 x pH 10.01, 25 mI	51102213
SET CAL COND	It contains 10 x EC 1.413 μS and 10 x EC 12.880 μS , 25 ml	51102223
SET CAL PC	It contains $7\times pH$ 4.01 and 7.00, $6\times EC$ 1.413 μS , 25 ml	51102233
REPLACEMENT pH	It contains 6 x pH 4.01, pH 7.00, H20, and 2 x Storage , 25 mI	51102243
REPLACEMENT COND	It contains $7 \times EC$ 1.413 $\mu S, EC$ 12.880 μS and 6 \times deionized H20, 25 ml	51102253
REPLACEMENT PC	It contains 5 x pH 4.01, pH 7.00 and 1.413 μS , 3 x H20, 25 ml and 2 x Storage 10 ml	51102263
STORAGE	Storage solution for electrodes 55 ml	32208043
STORAGE	Storage solution for electrodes 500 ml	32208053

ACCESSORIES

Name	Description	P/N
ECOSTIR MAGNETIC STIRRER	Magnetic stirrer, adjustable speed, with magnetic bar and power supply.	22001953
HOLDER MOD: 3900	Flexible electrode holder	50000112
PRINTER	External printer with normal paper for 60 / 8 PRO / 80 PRO Series, power supply and RS 232 cable	50001502
CASE IP67	IP 67 waterproof case for Vio portable instruments	50010972
SOFT CASE	Bag with adjustable shoulder strap in eco-sustainable material for Vio portable instruments	50010962
POWER SUPPLY	Power supply and cable for XS Revio / 70 Vio	50110172
SUPPORT	Magnetic Support for Vio portable instruments	50110252



0xy 70 **√**io

- O High accuracy with low oxygen level
- O High resolution backlit coloured LCD Display
- O Automatic compensation of temperature and pressure
- O Data logger auto and manual, up to 1000 savings in GLP
- O GLP with date and time of the last calibration.
- O Auto calibration DO 0%-100%
- O Optical sensor maintenance free

Professional portable oxymeter with innovative backlit high-resolution colour display for excellent data view in all conditions thanks to the possibility of automatically and manually adjusting the contrast and lighting of the display.

The online guide in setup and calibration mode allows a simple and intuitive use of the device.

Automatic calibration up to two points (0% - 100%).

Automatic compensation of temperature and barometric pressure, manual salinity.

Measurement stability indicator and possibility to select 3 stability levels. All operations are constantly monitored and reported to the operator via the coloured LED above the display and the self-diagnosis messages.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connection via micro-USB.

Data-Link + software available at www.xsinstruments.com.



D0: 0,0...50 mg/l(0,01 - 0,1 mg/l) **Saturation**: 0,0...400 %(0,1 - 1 %)

Barometric pressure: 300...1100 mbar (1 mbar)

Temperature: -10...+110,0 °C

Equipped with:

O Oxygen standard, USB cable and power supply, user manual and plastic carrying case.







Name	Description	P/N
OXY 70 VIO 2 m	Complete with optical sensor OXY LD070, with integrated temperature sensor. Cable lenght: 2 m	50110302
OXY 70 VIO 10 m	Complete with optical sensor OXY LD070, with integrated temperature sensor. Cable lenght: 10 m	50110312
LD070 / 2m SENSOR	Optical sensor for OXY 70 Vio, with integrated temperature sensor. Cable 2 m	50010342
LD070 / 10m SENSOR	Optical sensor for OXY 70 Vio, with integrated temperature sensor. Cable 10 m	50010352
MEMBRANE	Replacement membrane for LD070	50010362
ARMOR STEEL	Steel armor for LD070 / 10 mt	50010372



Oxy 7 Vio

- O High resolution backlit coloured LCD Display
- O Automatic compensation of temperature and pressure
- O Auto calibration DO 0%-100%
- O Automatic resolution of the measure
- O Polarographic sensor
- Polarization timer

Professional portable oxymeter with innovative backlit high-resolution colour display for excellent data view in all conditions thanks to the possibility of manually adjusting the contrast and brightness of the display.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic calibration up to two points (0% - 100%).

Automatic compensation of temperature and barometric pressure, manual salinity.

Measurement **stability indicator** and possibility to select 3 stability levels.

All operations are constantly monitored and reported to the operator via the **coloured LED** above the display and the self-diagnosis messages.





Measuring range:

DO: 0,0...50 mg/l (0,01 - 0,1 mg/l) **Saturation**: 0,0...400 % (0,1 - 1 %)

Barometric pressure: 300...1100 mbar (1 mbar)

Temperature: 0...+100,0 °C

Equipped with:

O Oxygen standard, replacement membrane, user manual and plastic carrying case.



Name	Description	P/N
OXY 7 VIO COMPLETE	Complete with polarographic sensor D07/3M with integrated temperature sensor, cable lenght 3 m, 1 replacement membranes, refill solution (30ml), 0 0xygen standard, user manual and carrying case	50110202
OXY 7 VIO ECO	Only instrument without oxygen sensor, in Ecopack with user manual.	50110212
D07 / 3m SENSOR	Polarographic sensor, with integrated temperature sensor. Cable 3m, 2 replacements membranes, refill solution (30ml)	50010242
MEMBRANE	Kit 2 replacement membranes for D07/3M	50010252
ELECTROLYTE	Refill solution for D07/3M (30 ml)	50010262
ARMOR PPE	PPE armor for D07/3M	50010282
0% STANDARD	0 Oxygen standard - 1 bottle	50010292
0% STANDARD	0 Oxygen standard - 5 bottles pack	50010272





ACCESSORIES

Name Description P/N

IP67 CASE

Waterproof carrying case IP 67 for portable meters Vio



50010972

SOFT CASE

Soft case with adjustable shoulder strap in eco-friendly material for portable meters $\mbox{\rm Vio}$



50010962

POWER SUPPLY

Power supply and cable for XS REVIO / 70 Vio



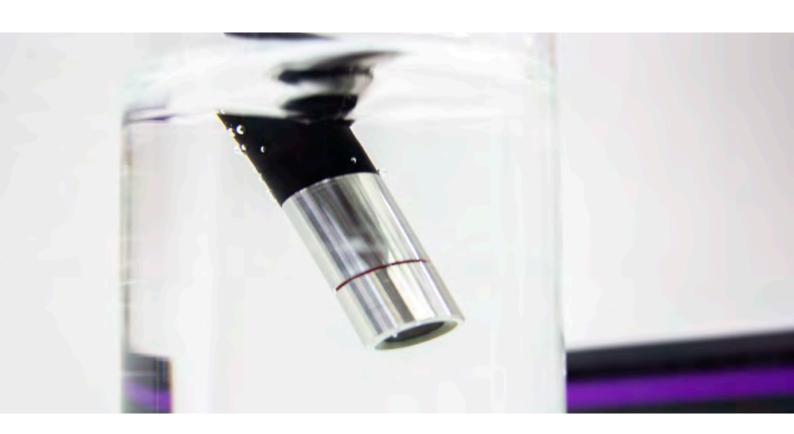
50110172

SUPPORT

Magnetical support for VIO portable instruments



50110252



ELECTRODES







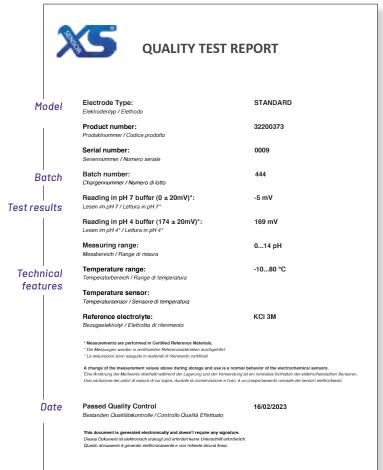






QUALITY REPORT

The models XS Standard and XS Flow are supplied with an individual quality report, referring to the electrode serial number on the internal label for proper traceability according to GLP standards of your calibration and pH measurements.





HOW TO CHOOSE THE RIGHT ELECTRODE

					201T / POLYMER PLAST													
					R PL													
			핕		YME	STANDARD HA		노		Σ							MICRO SPECIAL	
		ER	POLYMER TIP	STANDARD	POL	ARE		STANDARD HF		2 PORE SLIM		LL.	FOOD SLIM	SEMIMICRO		a	SPE	
		POLYMER	LYM	AND	11/	AND	FLAT	AND	FOOD	ORE	2 PORE	2 PORE F	3 QO	MΜ	MICRO	MICRO P	CRO	FLOW
	GEL		P	ST			립	ST	6	2 F	2.	2.	윤	SE	Σ	Σ	Σ	
Waste water		•			•	•												•
Deionized water																		
Tap water	•				•				•									•
Food																		
Butter									•	•	•		•					
Samples with protein																		
Alkali samples						•												
High temperature samples						•												
Samples in tube for NMR																	•	
Small volume samples							•											
Samples with Hydrofluoric acid								•										
Viscous samples																		
Cosmetics			•	•		•			•									
Cream																		
Detergents	•	•	•	•	•	•			•									
Aqueous emulsions																		•
Cheese										•	•	•	•					
Fruit and vegetables										•		•	•					
Milk			•						•	•	•	•	•					
Mayonnaise									•									
Marmalade		•	•						•		•							•
Bread and pasta									•			•	•					
Leather							•											
Brine	•								•									
Soap		•	•	•					•									•
Samples with low ionic strenght																		
Aqueous suspensions			•	•					•									•
Semi Aqueous suspensions									•									
Fruit juice		•	•	•					•									•
Surfaces							•											
TRIS swab				•														•
Tip			•							•	•	•	•					
Titolation				•					•									
Non Aqueous titolation																		
Galvanic treatment		•	•			•												
Water-based paints		•	•	•					•									
Paints				•					•									•
Wine		•	•	•					•									
Yogurt			•															



DHS Electrodes Digital High Sensor



Intelligent Sensor management

Digital High Sensors are the new pH sensors with internal chip, that store parameters, date of last calibration, model and production batch of the electrode. After connecting the pH DHS sensor to the instrument, with the same technology, all the data stored in the sensor chip are automatically transferred to the instrument and shown on the display.

After a new calibration of the DHS electrode, the data are automatically stored in the electrode chip. If we move this electrode to another DHSenabled instrument, we can start working immediately and with extreme security as the data from the last calibration will automatically be transferred and used for pH measurements.

Our DHS electrodes have integrated temperature sensor, fixed cable with BNC and RCA connectors and work without an internal battery, this allows to store them as normal pH electrode and can be connected to any instrument with BNC and RCA connection.



Name Description P/N

201 T DHS DIGITAL pH ELECTRODE

Digital pH electrode combined with DHS technology.

Plastic body for general use. Gel Filling, ceramic diaphragm. Maintenance-free.

Dimensions (LxØ) mm 120x12. pH 0...14 - Temperature 0...60 °C

32200103



Name Description P/N

STANDARD T DHS DIGITAL pH **ELECTRODE**

Digital pH electrode combined with DHS technology. Glass body and cylindrical membrane for general applications. Refillable KCI 3M electrolyte. Excellent chemical resistance and easy to clean. Included with serial number and certificate.

Dimensions (LxØ) mm 120x12 - pH 0...14 Temperature -10...100 °C

32200123



Name Description P/N

FLOW T DHS DIGITAL pH

ELECTRODE

Digital pH electrode combined with DHS technology. Glass body. Refillable KCI 3M electrolyte. With Teflon sleeve diaphragm for measurements in suspensions and samples with low conductivity. With serial number and certificate.

Dimensions (LxØ) mm 120x12. pH 0...14 Temperature -10...+80 °C

32200133



Name Description P/N

2 PORE T DHS DIGITAL pH

ELECTRODE

Digital pH electrode combined with DHS technology. Glass Body. Filled with polymer, maintenance-free. Ideal for meats and cheese samples.

Dimensions tip (LxØ) mm 35x6 - pH 0...14, Temperature 0...60 °C

32200113



Name Description P/N

2 PORE FT DHS

DIGITAL pH **ELECTRODE** Digital pH electrode combined with DHS technology. Plastic body (PEEK) and glass membrane. Polymer filling, maintenance-free. Ideal for meat and cheese samples. Dimensions tip (LxØ) mm 35x6 - pH 0...14, Temperature 0...60 °C

32200143



Laboratory electrodes

A very famous Swiss manufacturer developed a complete line of laboratory pH, ORP and conductivity electrodes with glass and plastic body. XS Sensors are available with S7 head or fixed cable with BNC or DIN connector plug. For food applications many models are equipped with temperature sensor included for a fast temperature compensation. Some models have internal serial number and quality certificate to work in accordance with GLP rules



Name	Description	P/N	
STANDARD S7	pH Electrode combined with S7 head. Glass body, for general use. Refillable Excellent chemical resistance and easy to clean. With serial number and o Dimensions (LxØ mm) 120x 12 - pH 014 Temperature -10100 °C.	32200363	
STANDARD BNC	With fixed cable 1 mt - BNC connector		32200263
STANDARD DIN	With fixed cable 1 mt - DIN connector		32200273
STANDARD T BNC + RCA	With temperature sensor NTC 30 KΩ, fixed cable BNC+RCA Cinch		32200473
STANDARD T DIN + BANANA	With temperature sensor NTC 30 KΩ, fixed cable DIN+banana 4 mm		32200463
G 214 BNC + BANANA	With temperature probe PT 1000, fixed cable BNC+banana 4 mm Without serial number and certificate.		32200813



Name	Description	P/N
STANDARD HA	pH electrode combined for minimal alkali error , S7 head. Glass body and cylindrical membrane. Refillable KCI 3M electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ mm) 120x 12 - pH 014 Temperature -10100 °C.	32200423



Name	Description	P/N
STANDARD HF	Combined pH electrode, S7 head. Glass body. With special membrane for measurements in samples containing hydrofluoric acid (0.01 M / 200 mg/l at 20 °C). Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. Dimensions (LxØ mm) 120x 12 - pH 014 Temperature -10100 °C.	32200433





Name	Description	P/N
GEL S7	Combined pH electrode, S7 head. Body in glass for general applications. Cylindrical membrane. Gel filled, maintenance-free. Dimensions (LxØ) mm 120x12 - pH 014 Temperature -1060 °C	32200203



Name	Description	P/N
POLYMER S7	Combined pH Electrode S7 head. Glass Body for general use. Cylindrical membrane. Polymer filled, open pore. For a fast response with high accuracy in samples that might contaminate normal diaphragms. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature -1080 °C	32200223



Name	Description	P/N
POLYMER TIP	Combined pH electrode with tipped membrane for pH in the soil. S7 head. Glass body. Polymer filled, two open pores. For a fast response with high accuracy in samples may contaminate normal diaphragms. Maintenance-free. Dimensions (Lyd) mm 12(y12 - pH 0 14 - Temperature -10 80°C	32200443



Name	Descriptio	n	P/N
FLOW S7	Combined pH electrode, S7 screw head. Glass body. Re sleeve diaphragm for measurements in viscous samp l With serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature	les with low conductivity.	32200373
FLOW T BNC	With integrated temperature sensor NTC 30 K $\!\Omega$ fixed cable 1 mt lenght BNC+RCA Cinch		32200723
FLOW T	With integrated temperature sensor PT 1000 fixed cable 1 mt lenght DIN+banana 4 mm		32200733
G 221 T BNC + BANANA	With integrated temperature sensor PT 1000 fixed cable 1 mt lenght BNC+banana 4 mm Without serial number and certificate.		32200863





Name Description P/N

FLAT

Combined pH electrode, S7 head. Glass Body. Polymer filled. With flat membrane for surface measurements. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C

32200413



Name Description P/N

SEMI MICRO

Combined pH electrode, S7 head. Glass body "micro 6". Refillable KCl 3M electrolyte. Suitable for measurements in test tubes. Dimensions tip (Lx \emptyset) mm 100 x 6 - pH 0...14 - Temperature 0...100 °C

32200383



Name Description P/N

MICRO

Combined pH electrode, S7 head. Glass body "micro 3". Refillable KCl 3M electrolyte. For small volume of samples <2 ml. Dimensions tip (Lx \emptyset) mm 60 x 3 - pH 0...14 - Temperature 0...100 °C

32200213



Name Description P/N

MICRO P

Combined pH electrode, S7 head. Glass body "micro 3". Refillable Glycerin KCl electrolyte. Suitable for small volumes in microbiological and biochemical applications. Dimensions tip (LxØ) mm 60 x 3 - pH 0...14 - Temperature 0...100 °C

32200253



Name Description P/N

MICRO SPECIAL

Combined pH electrode, S7 head, Glass body "micro 3". Refillable KCl 3M electrolyte. For small volume of samples <2 ml. Ideal for NMR tubes. Dimensions tip $(Lx\emptyset)$ mm 180x3 - pH 0...14 - Temperature 0...100 °C

32200453



Electrodes for food applications



Name	Description	p/n
FOOD S7	Combined pH electrode with 3 diaphragm, S7 head. Glass body. Refillable Glycerin KCl electrolyte. For dairy and food applications. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature -10100 °C	32200393
FOOD T BNC + RCA	With NTC temperature sensor, 1 m fixed cable ,plug BNC+RCA	32200753



Name	Description	p/n
FOOD SLIM S7	Combined pH electrode,S7 head. Glass body. Refillable Glycerin KCl for sample containing proteins. 6 mm tip for penetration measurements. Dimensions tip (LxØ) mm 25x6 - pH 014 - Temperature -10100 °C	32200243



Name	Description	p/n
ZETATRODE 87	Combined pH electrode, S7 head. Glass body. Refillable Glycerin KCl for sample containing proteins. 4 mm tip for penetration measurements. Dimensions tip (LxØ) mm 120x4 - pH 014 - Temperature 060 °C	32200403



Name	Description		p/n
2 PORE S7	Combined pH electrode, S7 head. Glass body. Polymer filling, two cldeal for meat and cheese applications. Dimensions tip (LxØ) mm 35x6 - pH 014 - Temperature 060 °C	pen pores, maintenance free.	32200333
2 PORE T BNC + RCA	With integrated temperature sensor NTC 30 K $\!\Omega_{\rm r}$ fixed cable 1 mt length, BNC+RCA Cinch		32200323



Name	Description	p/n
2 PORE SLIM	Combined pH electrode, S7 head. Glass body. Polymer filling. Two open pores, maintenance-free. Ideal for meat and cheese applications.	32200283

and cheese applications.

Dimensions tip (LxØ) mm 35x4,5 - pH 0...14 - Temperature 0...60 °C





Name	Description	p/n
2 PORE F 87	Combined pH electrode, S7 head. Plastic body (PEEK) and glass tip. Polymer filling, two open pores, maintenance-free. Ideal for meat and cheese applications. Dimensions tip (LxØ) mm 35x6 - pH 014 - Temperature 060 °C	32200293
2 PORE F T BNC + RCA	With integrated temperature sensor NTC 30 $\mbox{K}\Omega$ fixed cable 1 mt., BNC+RCA.	32200703
2 PORE F T DIN + BANANA	With temperature sensor PT1000, fixed cable 1 mt., plug DIN + banana 4 mm For Knick and WTW instruments.	32200713
G 216 T BNC + BANANA	With temperature sensor PT1000, fixed cable 1 mt., plug BNC + banana 4 mm	32200823



Name	Description	p/n
2 PORE STEEL S7	Combined pH electrode, steel body. Polymer filled, maintenance-free. Ideal for meat and cheese applications or penetration measurements. Dimensions tip (LxØ) mm 50x6 - pH 014 - Temperature 080 °C	32200653
2 PORE STEEL T BNC + RCA	With integrated temperature sensor NTC 30 K Ω , fixed cable 1 mt., BNC + RCA cinch plug.	32200313







Name	Description	p/n
2 PORE K S7	Combined pH electrode, S7 head. Steel body with replaceable blade. Polymer filling, two open pores, maintenance-free. Ideal for meat and cheese applications or penetration measurements. Dimensions tip (LxØ) mm 35x6 - pH 014 - Temperature 060 °C	32200303
2 PORE K WITHOUT BLADE	Only electrode, without knife.	32200343
BLADE	Replaceable knife for 2 Pore K	32200353



Plastic electrodes for general use



Name	POLYMER Combined pH electrode, S7 head, with epoxy body. Good chemical resistant. Polymer filling, one open pore and one cerainic diaphragm, for a fast response in samples that contain substances that might contaminate the diaphragm.		p/n
POLYMER PLAST S7			32200493
POLYMER PLAST BNC	With fixed cable 1 mt., BNC plug		32200503
POLYMER PLAST DIN	With fixed cable 1 mt., DIN plug		32200513



Name	Description	p/n
201 T BNC	Combined pH electrode with NTC integrated temperature sensor. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 014 - Temperature 060 °C	50002002
201 T /3 BNC	201 T with cable 3 mt long	50002072
201 T /5 BNC	201 T with cable 5 mt long	50002022
201 T DIN	With integrated temperature sensor NTC 30 K Ω , fixed cable 1 mt., DIN+1 Banana 4mm plug	50002052
201 T DIN + 2 BANANA	With integrated temperature sensor NTC 30 K Ω , fixed cable 1 mt., DIN+ 2 Banana 4mm plug	50002042
G 210 BNC + BANANA	With integrated temperature sensor PT 1000, fixed cable 1 mt. BNC + 1 Banana 4mm plug	32200803

Cleaning and maintenance solutions

Volume	p/n
55 ml	32208113
55 ml	32208003
500 ml	32208013
55 ml	32208023
55 ml	32208033
55 ml	32208043
500 ml	32208053
55 ml	32208063
250 ml	32208093
55 ml	32208073
250 ml	32208103
55 ml	32208083
	55 ml 55 ml 550 ml 55 ml 55 ml 55 ml 55 ml 500 ml 55 ml 250 ml 250 ml



ORP Electrodes



Name Description P/N

STANDARD ORP

Combined pH electrode, S7 head. Glass body. Refillable KCL 3M Electrolyte. **Platinum ring** for ORP measurements. Dimensions (LxØ) mm 120x12 - Temperature -10...100 °C

32200233



Name Description P/N

STANDARD AG

Combined electrode, S7 head. Glass body.
Refillable KN03 1M Electrolyte. Silver pin for argentometric titrations.
Dimensions (LxØ) mm 120X12- Temperature 0...80 °C

32200483



Name Description P/N

FLOW AG

Collar diaphragm, S7 head with silver tip for argentometric applications. Dimensions (LxØ) mm 120X12- Temperature 0...80 °C - mV +/- 2000 mV

32200543



Name Description P/N

STANDARD KF

Glass Body, S7 head. Maintenance-free. **Double platinum pins for KF and S02 titrations**Dimensions (LxØ) mm 120X12 - Temperature 0...80 °C

32200523



Name Description P/N

PLAST ORP

S7 head, epoxy body.

Gel filling, double junction, maintenance-free. Ceramic diaphragm.

Dimensions (LxØ) mm 120X12 - Temperature 0...60 $^{\circ}$ C

32200663

PLAST ORP

With fixed cable 1mt., BNC Plug



32200673



Process electrodes



Name	Description	p/n
BASIC PRO S7 - PG 13,5	Combined pH electrode, S7 head. Lenght 120 mm. Glass body, ceramic diaphragm. Gel filling , maintenance-free. Withstands pressure of 2 bar - pH 014 - Temperature 060 °C	32201021



Name

Description

p/n

PLASTIC PRO
S7-PG 13,5

Combined pH electrode, S7 head, with epoxy body. Length 120 mm.
Good chemical resistant. Polymer filling, open pore. Maintenance-free.
Withstands pressure of 6 bar - pH 0...14 - Temperature -10...60 °C

32201101



POLYMER PRO S7-PG 13,5

Combined pH electrode, S7 head, glass body. Lenght 120 mm.
Polymer filling with barrier, open pore. Maintenance-free.
Withstands pressure of 6 bar - pH 0...14 - Temperature -10...60 °C



POLYMER HA
PRO
S7-PG 13,5

Combined pH electrode, S7 head, glass body. Lenght 120 mm.
Polymer filling, open pore. Maintenance-free. Sterilizable.
Special membrane with low alkaline error and resistant to the metals present in the sample.
Withstands pressure of 6 bar - pH 0...14 - Temperature -10...130 °C



POLYMER HF
PRO
S7 - PG 13,5

Combined pH electrode, S7 head, glass body. Lenght 120 mm.
Polymer filling, open pore. Maintenance-free.
Special membrane HF resistant (0,01M 200mg at 20°C and 0,05M 1000mg at 50°C).
Withstands pressure of 6 bar - pH 0...14 - Temperature 0...100 °C



NameDescriptionp/nPURE PRO S7-PG 13,5Combined pH electrode, S7 head, glass body. Lenght 120 mm. Refillable KCI 3M electrolyte. Designed for low conductivity samples (<0,2 μS) pH 0...14 - Temperature 0...40 °C</td>32201081

PROCESS ELECTRODES





Name	Description	p/n
PURE PRO GEL S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. Gel Filling, maintenance-free. Designed for low conductivity samples (<1 µS) Withstands pressure of 6 bar - pH 014 - Temperature 060 °C	32201171



Name	Description	p/n
GEL HT PRO S7 - PG 13,5	Combined pH electrode, S7 head. Lenght 120 mm. Glass body with 3 ceramic diaphragms. Gel Filling, maintenance-free. Withstands pressure of 16 bar - pH 014 - Temperature 0130 °C	32201001
GEL HT PRO 225 S7 - PG 13,5	Lenght 225 mm	32201041



Name	Description	p/n
POLYMER HT PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. Polymer filling, open pore. Maintenance-free. Withstands pressure of 6 bar - pH 014 - Temperature 0130 °C	32201011
POLYMER HT PRO 225 S7 - PG 13,5	Lenght 225 mm	32201051



Name	Description	p/n
POLYMER PLUS PRO S7 - PG 13,5	Combined pH electrode, S7 head, glass body. Lenght 120 mm. Special polymer filling and encapsulated reference system. Maintenance-free. Open pore. Withstands pressure of 6 bar - pH 014 - Temperature 0130 °C	32201121
POLYMER PLUS PRO 225 S7 - PG 13,5	Lenght 225 mm	32201211



Name	Description	p/n
GEL BIOTECH S7 - PG 13,5	Combined pH electrode, glass body with 1 ceramic diaphragm. Length 120 mm. Maintenance-free, gel filling, pressurized for biotechnology and fermenters, prevents internal pollution by the sample. For SIP and CIP cycles. Withstands pressure of 6 bar - pH 0 14 - Temperature 0 130 ° C	32201241
GEL BIOTECH 225 S7 - PG 13,5	Lenght 225 mm	32201251



VP head electrodes



Name	Description	p/n
POLYMER PLUS VP 120 VP HEAD - PT1000	Combined pH electrode, VP Multipin screw head . Glass body. Length 120 mm. Special polymer filling and encapsulated reference system , maintenance-free. Open pore. Complete with PT1000 sensor . Withstands pressure of 6 bar - pH 0 14 - Temperature 0 130 ° C	32201351
POLYMER PLUS VP 225 VP HEAD - PT1000	Lenght 225mm. With PT1000 sensor.	32201361
POLYMER PLUS VP 120 VP HEAD - PT100	Length 120 mm. With PT100 sensor.	32201401



Name	Description	p/n
POLYMER HT VP 120 VP	Combined pH electrode, VP Multipin screw head . Glass body. Length 120 mm. Polymer filling , maintenance-free. Open pore. Complete with PT1000 sensor. Withstands pressure of 6 bar - pH 0 14 - Temperature 0 130 ° C	32201301
POLYMER HT VP 225	Lenght 225mm	32201311

Cleaning, maintenance and electrolyte solutions

Name	Volume	p/n
KCL 3M + AgCl Solution	55 ml	32208113
3M KCL Solution	55 ml	32208003
3M KCL Solution	500 ml	32208013
GLYCERIN-KCI Solution	55 ml	32208023
KNO3 1M FOR ELECTRODE XS STANDARD Ag Solution	55 ml	32208033
ELECTRODES STORAGE Solution	55 ml	32208043
ELECTRODES STORAGE Solution	500 ml	32208053
PROTEIN CLEANING SOLUTION (PEPSIN) FOR FOOD INDUSTRY ELECTRODES	55 ml	32208063
PROTEIN CLEANING SOLUTION (PEPSIN) FOR FOOD INDUSTRY ELECTRODES	250 ml	32208093
DIAPHRAGM CLEANING (THIOUREA) Solution	55 ml	32208073
DIAPHRAGM CLEANING (THIOUREA) Solution	250 ml	32208103
REGENERATION SOLUTION (WITH HF) FOR pH ELECTRODES	55 ml	32208083



Redox process electrodes



Name Description p/n

BASIC ORP PLATINUM S7 - PG 13.5

Glass electrode for ORP measurements with gel filling. S7 screw head. Length 120 mm. Withstands pressure of 2 bar – Temperature 0... 60 $^{\circ}$ C

32201031



Name Description p/n

PLASTIC PRO ORP S7 - PG 13,5 **Unbreakable epoxy body**, S7 screw head. Length 120 mm. Polymer filling, ceramic diaphragm + open pore. Maintenance-free **Withstands pressure of 6 bar - Temperature -10... 60 ° C**

32201141



Name Description p/n

POLYMER ORP S7 - PG 13,5 Glass body. S7 screw head. Length 120 mm. **Polymer filling. Open pore.** Maintenance-free. **Withstands pressure of 6 bar - Temperature -10... 60 ° C**

32201131



Name Description p/n

GEL HT ORP S7 - PG 13,5 S7 screw head. Length 120 mm. Glass body with **3 ceramic diaphragms**. Maintenance-free, gel filling.

Withstands pressure of 16 bar - Temperature 0... 130 ° C

32201091

Process conductivity probe



Name Description p/n

SPT1 Conductivity cell in graphite C = 1 with Pt 100 and 8 m cable.

Range 0 mS... 10 mS - Temperature 0 ... 60 ° C

32390001



Laboratory Conductivity probes

	with NTC O,,,ov C		
Name	Description		P/N
VP1	Platinum glass cell C = 1, fixed cable 1 m with BNC. Range 10µS 100 mS	0 0000	50004062
VPT 1	Platinum glass cell C = 1, with temperature sensor NTC 30K Ω		50003352
FPT 1	Epoxy body cell C = 1 , with temperature sensor NTC $30K\Omega$	43)	50003382

Name	Description	P/N
VPT 01	Steel/PVC cell C = 0.1, with integrated temperature sensor. Fixed cable 1 m BNC-Cinch. Range 0.1µS 1 mS	50004012
	X5 4	
Name	Description	P/N

	NTC 30 KD	
Name	Description	P/N
VPT 10 H	Platinum glass cell C = 10, with integrated temperature sensor, fixed cable 1 m BNC-Cinch. Range 100µS 500 mS.	50003372

Conductivity Cell

SENSORE

	Candinal the mill Carl	
Name	Description	P/N
2301 T	Epoxy cell C = 1 with integrated temperature sensor, fixed cable 1 m. Working range 10μS 200 mS	50004002
2301 T / 3	Fixed cable 3 m	50004092
2301T/5	Fixed cable 5 m	50004022

Name	Description	P/N
EPT 4 FULL RANGE	PVC-Graphite cell 4 rings C=0,5, 1m cable, integrated temperature sensor. Multipin connector. Measuring range 0,01 μS1 S. Compatible with PC-Cond 80 Pro	50003362

Name Description P/N

VPT SOIL PVC-Graphite cell 4 rings C=0,5, 1m cable, integrated temperature sensor. Multipin connector.



Cables and accessories

LABORATORY

Cables are provided with S7 head to screw at the electrodes head. The plug choice is related to the instrument used. Diameter 3 mm, lenght 1 m.

Name	Description	p/n
BNC	Cable S7-BNC	33551733
DIN	Cable S7-DIN	33551743

PROCESS

Connecting cable for process electrodes. Diameter 5 mm.

Plug and lenght of the cable must be chosen based on the application.

Name	Description	p/n
CABLE 5 MM	Coaxial cable with antistatic sheath for electrodes, diameter 5mm	33550533
S7 HEAD	Only S7 head for 5mm cable	33412913
BNC	Only BNC plug for 5 mm cable	33412923
DIN	Only DIN plug for 5 mm cable	33550903

	Lenght	p/n
PRE - ASSEMBLED CABLE WITH	3 m	33550733
S7 HEAD - OPEN WIRES	5 m	33550663
	10 m	33550803
	20m	33550763
	1 m	33550673
	3 m	33550743
PRE- ASSEMBLED CABLE WITH	5 m	33550563
S7 HEAD - BNC PLUG	10 m	33550753
	20 m	33550773
DDE ACCEMBLED CARLE WITH	3 m	33551091
PRE- ASSEMBLED CABLE WITH VP 6 FOR ELECTRODE WITH PT100 - PT1000	5 m	33551101
VI OTOMELECTRODE WITH PTIOO-PTIOO	10 m	33551111

BUFFER SOLUTIONS



XS GREEN LINE SOLUTIONS

CALIBRATION AND QUALITY

pH and conductivity measurements and redox potential are routine operations in most laboratories and processes. Reliability and accuracy of measurements are essential for the quality control. The XS Green Line Solutions range suits your needs and quarantees an impeccable calibration.



The more accurate the pH and conductivity measurements are, the more reliable the calibration solutions are. XS Professional solutions are a guarantee of metrological traceability of your measurement chain and are ideal for regulated areas. Traceability is ensured by the certifications of accredited external calibration laboratories UNI CEI EN ISO/IEC 17025. pH buffer solutions are DKD-DAkkS certified by calibration at the ZMK Zentrum für Messen und Kalibrieren. Conductivity standards are DANAK certified by calibration at the DFM Danish Institute of Fundamental Metrology. Upon request, it is available the Certification Report in accordance to ISO 17034.



XS standard solutions are traceable to the IUPAC pH scale, using an unbroken chain of comparisons directly to NIST Standard Reference materials.

Each solution is provided with the Certificate of Analysis of the GIORGIO BORMAC internal Laboratory, which guarantees quality, traceability and accuracy. XS Basic solutions are your perfect partner to verify your sensors and measurement systems every day.



XS PROFESSIONAL pH

All solutions are ISO 9001 - DAkkS/DKD certified.
The Certificate is available on our website: www.xsinstruments.com

OBOTTLE 250 ml

Name	Description	p/n
pH 4.01	±0,02 / 25°C - Red	51300003
pH 7.00	±0,02 / 25°C - Green	51300013
pH 9.21	±0,02 / 25°C - Blue	51300023
pH 10.01	±0,02/ 25°C - Yellow	51300033

O BOTTLE 500 ml

Name	Description	p/n
pH 4.01	±0,02 / 25°C - Red	51300103
pH 7.00	±0,02 / 25°C - Green	51300113
pH 9.21	±0,02 / 25°C - Blue	51300123
pH 10.01	±0,02/ 25°C - Yellow	51300133

XS PROFESSIONAL COND

With DFM and N.I.S.T traceability, The Certificate is available on our website: www.xsinstruments.com



O BOTTLE 280 ml Glass

Name	Description	p/n
1,3 µS/cm (25°C)	DFM. Accuracy ±0,1µS	51300303
5,0 μS/cm (25°C)	DFM. Accuracy ±0,1µS	51300313

O BOTTLE 500 ml with built-in calibration compartment

Name	Description	p/n
84 µS/cm (25°C)	DFM. Accuracy ±1%	51300323
147 μS/cm (25°C)	DFM. Accuracy ±1%	51300333
1413 μS/cm (25°C)	1278 µS/cm(20°C) - DFM. Accuracy ±1%	51300343
12.880 μS/cm (25°C)	11670 μS/cm (20°C) - DFM. Accuracy ±1%	51300353



XS BASIC

BUFFER SOLUTIONS IN SACHETS

WITH N.I.S.T. TRACEABILITY.







O SINGLE BUFFER

Name	Description	p/n
pH 4.01 (25°C)	Pack of 20 sachets 25 ml, red, with certificate of analysis	51102013
pH 7.00 (25°C)	Pack of 20 sachets 25 ml, green, with certificate of analysis	51102023
pH 10.01 (25°C)	Pack of 20 sachets 25 ml, with certificate of analysis	51102043
EC 1413 μS/cm (25°C)	Pack of 20 sachets 25 ml, with certificate of analysis	51102053
EC 12880 μS/cm (25°C)	Pack of 20 sachets 25 ml, with certificate of analysis	51102063
STORAGE	Pack of 20 sachets 10 ml, pH/0RP Sensor Storage Solution	51102083
H2O	Pack of 20 sachets 25ml, Distilled water for sensor cleaning	51102093

CALIBRATION SET

Name	Description	p/n
SET CAL pH BIS	Pack of 20 sachets 25ml (10 x pH 4.01 and 10 x pH 7.00)	51102203
SET CAL pH BIS	Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x pH 10.01)	51102213
SET CAL COND	Pack of 20 sachets 25ml (10 x EC 1.413 μS and 10 x EC 12.880 $\mu S)$	51102223
SET CAL PC	Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x EC 1.413 μS)	51102233
REPLACEMENT pH	Pack of 20 sachets 25ml (6 x pH 4.01, 6 x pH 7.00, 6 x H20 distilled water and 2x Storage 10 ml)	51102243
REPLACEMENT COND	Pack of 20 sachets 25ml (7 x EC 1.413 μ S, 7 x EC 12.880 and 6 x H20 distilled water)	51102253
REPLACEMENT PC	Pack of 20 sachets 25ml (5 x pH 4.01, 5 x pH 7.00, 5 x 1.413 μ S, 3 x H20 distilled water and 2 x Storage 10 ml)	51102263

P17,00 ± 0,02



DISPOSABLE BOTTLE 55 ml

pH 4,01 $\pm 0.02 / 25^{\circ}\text{C}$ - Red32383123pH 7,00 $\pm 0.02 / 25^{\circ}\text{C}$ - Green32383133pH 9,00 $\pm 0.02 / 25^{\circ}\text{C}$ - Blue32383143pH 10,01 $\pm 0.02 / 25^{\circ}\text{C}$ - Uncoloured32382903468 mV $\pm 5 \text{mV} / 25^{\circ}\text{C}$ - Yellow32383163475 mV $\pm 5 \text{mV} / 25^{\circ}\text{C}$ - Yellow32383153EC 84 μS/cm $\pm 1\% / 25^{\circ}\text{C}$ - Uncoloured60000613EC 1413 μS/cm $\pm 1\% / 25^{\circ}\text{C}$ - Uncoloured60000423EC 12880 μS/cm $\pm 1\% / 25^{\circ}\text{C}$ - Uncoloured600000433	Name	Description	p/n
pH 9,00 ±0,02 / 25°C- Blue 32383143 pH 10,01 ±0,02 / 25°C- Uncoloured 32382903 468 mV ± 5mV / 25°C- Yellow 32383163 475 mV ± 5mV / 25°C- Yellow 32383153 EC 84 μS/cm ± 1% / 25°C - Uncoloured 60000613 EC 1413 μS/cm ± 1% / 25°C - Uncoloured 60000423	pH 4,01	±0,02 / 25°C - Red	32383123
pH 10,01 ±0,02 / 25°C- Uncoloured 32382903 468 mV ±5mV / 25°C- Yellow 32383163 475 mV ±5mV / 25°C- Yellow 32383153 EC 84 μS/cm ±1% / 25°C - Uncoloured 60000613 EC 1413 μS/cm ±1% / 25°C - Uncoloured 60000423	pH 7,00	±0,02 / 25°C- Green	32383133
468 mV ± 5mV / 25°C- Yellow 32383163 475 mV ± 5mV / 25°C- Yellow 32383153 EC 84 μS/cm ± 1% / 25°C - Uncoloured 60000613 EC 1413 μS/cm ± 1% / 25°C - Uncoloured 60000423	pH 9,00	±0,02 / 25°C- Blue	32383143
475 mV ± 5mV / 25°C - Yellow 32383153 EC 84 μS/cm ± 1% / 25°C - Uncoloured 60000613 EC 1413 μS/cm ± 1% / 25°C - Uncoloured 60000423	pH 10,01	±0,02 / 25°C- Uncoloured	32382903
EC 84 μS/cm ± 1% / 25°C - Uncoloured 60000613 EC 1413 μS/cm ± 1% / 25°C - Uncoloured 60000423	468 mV	± 5mV / 25°C- Yellow	32383163
EC 1413 µS/cm ± 1% / 25°C - Uncoloured 60000423	475 mV	± 5mV / 25°C- Yellow	32383153
·	EC 84 μS/cm	± 1% / 25°C - Uncoloured	60000613
EC 12880 μS/cm ± 1% / 25°C - Uncoloured 60000433	EC 1413 μS/cm	± 1% / 25°C - Uncoloured	60000423
	EC 12880 µS/cm	± 1% / 25°C - Uncoloured	60000433



pH BUFFERS

With N.I.S.T traceability.

The Certificate is available on our website: www.xsinstruments.com



O BOTTLE 250 ml with built-in calibration compartment

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100033
pH 7,00	±0,02 / 25°C - Green	51100043
pH 9,00	±0,02 / 25°C - Blue	51100053
pH 9,21	±0,02 / 25°C - Blue	51100073
pH 10,01	±0,02 / 25°C - Uncoloured	51100063

\bigcirc **BOTTLE 500 ml** with built-in calibration compartment

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100133
pH 7,00	±0,02 / 25°C - Green	51100143
pH 9,00	±0,02 / 25°C - Blue	51100153
pH 9,21	±0,02 / 25°C - Blue	51100173
pH 10,01	±0,02 / 25°C - Uncoloured	51100163







○ POLITAINER 5000 ml (5 L)

Name	Description	p/n
pH 4,01	±0,02 / 25°C - Red	51100233
pH 7,00	±0,02 / 25°C - Green	51100243
pH 9,00	±0,02 / 25°C - Blue	51100253
pH 9,21	±0,02 / 25°C - Blue	51100273
pH 10,01	±0,02 / 25°C - Uncoloured	51100263



CONDUCTIVITY STANDARD

With N.I.S.T traceability and certificate downloadable from our website: www.xsinstruments.com

O BOTTLE 280 ml glass

Name	Description	XS 5.0	p/n
1,3 µS/cm (25°C)	N.I.S.T. Accuracy ±0,1µS	im w	51100503
5,0 μS/cm (25°C)	N.I.S.T. Accuracy ±0,1µS	E S	51100513

O BOTTLE 500 ml with built-in calibration compartment

Name	Description		p/n
84 μS/cm (25°C)	N.I.S.T. Accuracy ±1%	最最新	51100613
147 μS/cm (25°C)	N.I.S.T Accuracy ±1%		51100623
1413 µS/cm (25°C)	1278 μS/cm (20°C) - N.I.S.T. Accuracy ±1%	M 1413 1288	51100633
12.880 µS/cm (25°C)	11670 μS/cm(20°C) - N.I.S.T. Accuracy ±1%		51100643

REDOX / ORP STANDARD

Name	Description	p/n
200 mV (25°C)	± 5mV Bottle 250 ml	51100303
468 mV (25°C)	± 5mV Bottle 55 ml	32383163
475 mV (25°C)	± 5mV Bottle 250 ml	51100313
475 mV (25°C)	±5mV Bottle 500 ml	51100323
650 mV (25°C)	±5mV Politainer51	51100333



CLEANING AND MAINTENANCE SOLUTIONS

Name	Pack	p/n
Solution 3M KCL	55 ml	32208003
Solution 3M KCL	500 ml	32208013
Solution GLYCERIN-KCI	55 ml	32208023
Solution KN03 1M for Electrode STANDARD Ag	55 ml	32208033
Solution STORAGE for Electrodes	55 ml	32208043
Solution STORAGE for Electrodes	500 ml	32208053
Solution PROTEINS CLEANING (PEPSIN) for FOOD application Electrodes	55 ml	32208063
Solution PROTEINS CLEANING (PEPSIN) for FOOD application Electrodes	250 ml	32208093
Solution DIAPHRAGM CLEANING (THIOUREA)	55 ml	32208073
Solution DIAPHRAGM CLEANING (THIOUREA)	250 ml	32208103
Solution REGENERATION (with HF) for pH Electrodes	55 ml	32208083



Brochures **XS Buffer solutions** is available on our website www.xsinstruments.com

TESTER

















APPLICATIONS:

O FARMING

O WATER AND WASTEWATER TREATMENT

O HYDROPONIC CROPS AND AQUARIUMS

O ENVIRONMENTAL MONITORING

O POOLS AND THERMAL CENTERS

O FOOD AND BEVERAGE

OOD AND BEVERAGE

O COOLING TOWER

O GALVANIC

O GRAPHIC INDUSTRY

OSCHOOLS





SELECTION GUIDE

	PX4	рН5	pH5F00D	COND 5	ORP 5	PC 5	PC 6
pH	•	•	•	0	0	•	•
Redox	•	0	0	0	•	0	•
Conductivity	0	0	0	•	0	•	•
TDS	0	0	0	•	0	•	•
Salinity	0	0	0	•	0	•	•
Temperature	•	•	•	•		•	•
pH measuring range	-2 16	-2 16	-2 16	-		-216	-216
Resolution	0.01	0.01	0.01	-		0.01	0.01
Calibration points	13	13	13	-	-	13	13
Stability indications	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mV (pH) measuring range	-1000+1000 mv	-1000+1000 mv	-1000+1000 mv	-		-1000+1000mv	-1000+1000 mv
Resolution	0.1 / 1 mv	0.1 / 1 mv	0.1 / 1 mv	-	-	0.1/1 mv	0.1 / 1 mv
mV(ORP) measuring range	-1000+1000 mv	-	-		-1000+1000 mv		-1000+1000 mv
Resolution	0,1 / 1 mv	-	-		0,1 / 1 mv		0,1 / 1 mv
Calibration	1 point	-	-		1 point		1 point
COND measuring range	-	-	-	0,01uS199,99 mS	-	0,01uS199,99mS	0,01uS199,99mS
Resolution	-	-	-	Auto	-	Auto	Auto
Calibratin point	-	-	-	13	-	13	13
Reference T	-	-	-	20 / 25 ºC	-	20 / 25 ºC	20 / 25 ºC
TDS measuring range	-	-	-	0,01ppm199,9ppt	-	0,01ppm199,9ppt	0,01ppm199,9 ppt
TDS factor	-	-	-	0.40 1.00	-	0.40 1.00	0.40 1.00
Salinity measuring range	-	-	-	0,1 mg/l 100,0 g/l	-	0,1 mg/l100,0 g/l	0,1 mg/l100,0 g/l
Temperature range	0 60°C	0 60 °C	0 60 °C	0 60 °C	0 60 °C	0 60 °C	0 60 °C
Display	3 colour	3 colour	3 colour	3 colour LCD	3 colour LCD	3 colour	3 colour
IP protection	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Sensor	Replaceable	Replaceable	Replaceable	Replaceable	Replaceable	Replaceable	Replaceable
Code	50014143	50014063	50014113	50014213	50014313	50014263	50014293





The KIT includes: sachets of buffer solutions 25 ml, calibration cap, lanyard, tissuess, quick manual and cardboard case.



pH 1

ОрН

IP67 watertight portable pH meter. Resolution 0.1 pH with microprocessor and fixed sensor. Push-button calibration on 1 or 2 points (choosing between pH 4, 7, 10). Wide LCD display with indication of the buffers used for calibration and measurement stability. Automatic temperature compensation. Auto power off function. **Self-diagnosis messages: low batteries, calibration errors.** Power supply with $2 \times 1.5 \text{V}$ AAA batteries included, compatible with rechargeable batteries too. 6-month warranty on electronic parts.

Measuring range: pH 0,0...14,0 (0,1 pH). Working temperature: 0..50°C





Name	Description	p/n
pH 1 KIT	pH1 Kit complete	50014013
pH 1 ECOPACK	pH 1, batteries 1,5 V AAA, lanyard, tissuess, storage	50014003

COND 1

O Conductivity - TDS

IP67 watertight portable conductivity meter for Conductivity and TDS measurement. Indication of the buffers used for calibration and measurement stability. Auto power off function. Self-diagnosis messages. Power supply with $2 \times 1.5 \text{V}$ AAA batteries included, compatible with rechargeable batteries too.

6-month warranty on electronic parts.

Measuring range: COND 0,01 μS...200 mS; TDS 0,01 ppm...199,9 ppt. Working temperature: 0..50°C

The KIT includes: 1 sachet x 25 ml 1413 μ S and 12,88 mS buffer solution, lanyard, tissues, quick manual and cardboard case.



Name	Description	p/n
COND 1	COND 1 Kit complete	50014163
COND 1 ECOPACK	COND 1, batteries 1,5 V AAA, lanyard, quick manual	50014153





pH 5○ pH - mV - T

IP67 watertight portable pH meter. Resolution 0,01 pH, with microprocessor and interchangeable electrode, temperature sensor and open partitions. Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability. Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis or for ORP sensor connection. Temperature reading. Auto power off function. Automatic temperature compensation (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.

1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (Resolution 0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solutions, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and cardboard case.



Name	Description	p/n
pH 5	pH 5 Kit complete	50014063
pH 5 ECOPACK	pH 5, batteries 1,5 V AAA, storage, lanyard and quick manual	50014053
pH 5 ONLY BODY	pH 5, without sensor	50014073
ELECTRODE pH	Replacement electrode for pH 5	50014403

pH 5 Food

O pH - mV - T

IP67 watertight portable pH meter. Resolution 0,01 pH, with microprocessor and interchangeable polymer-tipped electrode, temperature sensor and open partitions for measurements in the food industry. Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability. Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis. Temperature reading. Auto power off function. Automatic temperature compensation (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (Resolution 0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solutions, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and cardboard case



Name	Description	p/n
pH 5 Food KIT	pH 5 Food Kit complete	50014113
pH 5 Food ECOPACK	pH 5 Food with batteries 1,5 V AAA, storage, lanyard and quick manual	50014123
ELECTRODE pH	Replacement electrode for pH 5 Food	50014423



COND 5

O Conductivity - TDS - Salinity - T

IP67 watertight portable conductivity meter for Conductivity, TDS and Salinity measurement. Automatic scale change.

With microprocessor and high-durable interchangeable electrode. Wide 3-color LCD display with indication of the buffers used for calibration and measurement stability. Push-button calibration on 3 points with 3 standard values, choosing between 84, 1413 μ S and 12,88 mS. Reading and automatic temperature compensation with TR= 20/25 °C and adjustable coefficient TC= 0,00...4,00%/°C. TDS Factor: 0,40...1,00. Self-diagnosis messages. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.

Auto power off function.

1-year warranty on electronic parts.

Measuring range: COND 0,01 μS...200 mS; TDS 0,01 ppm...199,9 ppt; Salinity 0,1mg/l...100,0 g/l.

The KIT includes: 1 sachet x 25ml 1413 μ S and 12,88 mS buffer solutions, calibration cap, lanyard, tissues, quick manual and cardboard case.

25
14.13 250
0
##
p/n

Name	Description	p/n
COND 5	COND 5 Kit complete	50014213
COND 5 ECOPACK	COND 5, batteries 1,5 V AAA, lanyard and quick manual	50014203
COND 5 ONLY BODY	COND 5, without sensor	50014223
SENSOR COND	Replacement sensor for COND 5	50014413
VPT SOIL	Conductivity cell with temperature probe, C = 1, fo ground measurement, working range 10 μ S 50 mS, cable 1.5 m for COND 5	50014713

ORP 5

O Redox - T

IP67 watertight portable ORP/Redox meter. Resolution 0,1/1 mV. With microprocessor and interchangeable high-durable electrode. ORP calibration on one point decided by the user. Wide 3-color LCD display with indication of measurement stability. Auto power off function. Temperature reading. Self-diagnosis messages. Power supply with $2 \times 1,5V$ AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 bottle x 55ml Redox 475 mV solution, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and carboard case.



Name	Description	p/n
ORP 5	ORP 5 Kit complete.	50014313
SENSOR REDOX	Replacement sensor for ORP 5	50014443



PX 4

OpH-Redox-T

MAIN FEATURES

IP67 watertight portable pH and ORP/Redox meter. Resolution 0,01 pH and 0,1 / 1 mV. With microprocessor and interchangeable combined electrode. Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability. pH automatic calibration on 3 points with 5 values of USA buffers and ORP calibration on 1 point decided by user. mV reading for pH electrode diagnosis and ORP/Redox measurement. Temperature reading. Auto power off function. Automatic temperature compensation (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with $2 \times 1.5 \text{V}$ AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00(0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0(0,1)°C).

The KIT includes: 1 sachet x 25ml pH 7 and pH4 buffer solutions, 1 bottle x 55ml Redox 475 mV, 1 sachet of electrode storage solution, calibration cap, lanyard, tissues, quick manual and carboard case.

Name	Description	p/n
PX 4 KIT	PX 4 Kit complete	50014143
PX 4 ECOPACK	PX 4 , batteries 1,5 V AAA, storage, lanyard and quick manual	50014173
ELECTRODE pH + REDOX	Replacement sensor for PX 4	50014463

PC 5

OpH - Conductivity-TDS - Salinity -T

MAIN FEATURES

lP67 watertight portable multiparameter for pH, Conductivity, TDS and Salinity measurement. Interchangeable combined electrode. Indication of the buffers used for calibration and measurement stability. Self-diagnosis messages. Power supply with $2\times 1.5 \text{V}$ AAA batteries included, compatible with rechargeable batteries too.

Auto power off function.

1 year warranty on electronic parts.

pH: Resolution 0,01 pH. Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis.

COND: Push-button calibration on 3 points with 3 standard values, choosing between 84, 1413 µS e 12,88 mS. Adjustable coefficient TC= 0,00...4,00%/°C.

TDS Factor: 0,40...1,00.

Measuring range:

pH: -2,00...16,00 (0,01 pH); mV: -1.000...+1.000 mV; COND 0,01 µS...200 mS; TDS 0,01 ppm...199,9 ppt; Salinity 0,1mg/I...100,0 g/I; T: 0,0...60,0°C (0,1°C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solutions, 1 sachet of electrode storage, 1 sachet x 25ml 1413 μ S buffer solution, calibration cap, lanyard, tissues, quick manual and cardboard case.



Name	Description	p/n
PC 5	PC 5 Kit complete	50014263
PC 5 ECOPACK	PC 5 , batteries 1,5 V AAA, storage, lanyard and quick manual	50014253
ELECTRODE PC	Replacement electrode for PC 5	50014433



PC6

OpH-Redox - Conductivity-TDS - Salinity - T

MAIN FEATURES

IP67 watertight portable multiparameter for pH, ORP, Conductivity, TDS and Salinity measurement. High-durable interchangeable combined electrode. Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability. Reading and automatic temperature compensation (0...60°C). Auto power off function. Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.

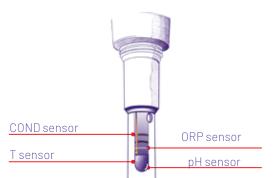
1 year warranty on electronic parts.

pH: Resolution 0,01 pH. Automatic calibration on 3 points with 5 values of USA buffers and . ORP calibration on one point decided by the user.

mV reading for pH electrode diagnosis and ORP/Redox measurement.

COND: Automatic calibration on 3 points with 3 standard, choosing between 84, 1413 μ S e 12,88 mS.

Automatic temperature compensation with TR= 20/25°C and adjustable coefficient TC= 0,00...4,00%/°C. **TDS** factor: 0,40...1,00.





pH: -2,00...16,00 (0,01 pH); mV: -1.000...+1.000 mV; COND 0,01 µS...200 mS; TDS 0,01 ppm...199,9 ppt; Salinity 0,1mg/l...100,0 g/l; °C: 0,0...60,0°C (0,1°C).

The KIT includes: 1 sachet x 25 ml pH 7 and pH 4 buffer solutions, 1 sachet x 25 ml storage solution and 1413 μ S standard solution, calibration cap, lanyard, tissues, quick manual and carboard case.

Name	Description	p/n
PC 6	PC 6 Kit complete	50014293
ELECTRODE PC	Replacement electrode for PC 6	50014483

CALIBRATION BUFFER SOLUTIONS

Name	Description	p/n
pH 4,01	1 bottle x 55 ml buffer solution. Accuracy ±0,01 pH	32383123
pH 7,00	1 bottle x 55 ml buffer solution. Accuracy ±0,01 pH	32383133
475 mV	1 bottle x 55 ml buffer solution for REDOX	32383153
1413 µS	1 bottle x 55 ml buffer solution	60000423
12 880 µS	1 bottle x 55 ml buffer solution	60000433
84 μS	1 bottle x 55 ml buffer solution	60000613





NOTE



BALANCES

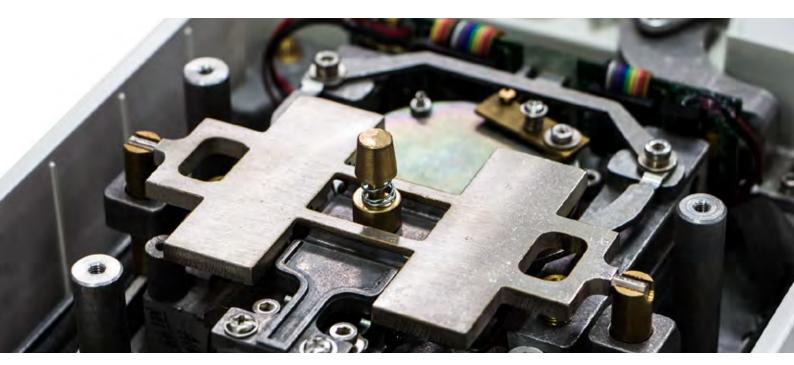












HOW TO CHOOSE

Resolution (g)	Capacity (g)	Model	Calibration	RS-232	Batteries	p/n
0,0001	220	BL 224 TOUCHSCREEN	Internal + External	•		27006013
0,0001	220	BL 224	Internal + External	•		27006003
0,0001	220	BL 224 BASIC	External	•		27005993
0,001	300	BL 303	External	•	•	27000513
0,001	110	BM 113 MOISTURE ANALIZER	External	•		27001303
0,01	600	BL 602	External	•	•	27000323
0,01	2.000	BL 2002 BASIC	External		•	27000303
0,01	2.000	BL 2002	External	•	•	27000313
0,1	3.000	BL 3001	External	•	•	27000113
0,1	6.000	BL 6001 BASIC	External		•	27000293
0,1	6.000	BL 6001	External	•	•	27000123
0,1	30.000	BL 30K1	External		•	27000133
1	3.000	BW 3000 WATERPROOF	External		•	27001003
1	30.000	BL 30K	External	•	•	27001203
10	100.000	BL 100K	External	•		27001213



BL 224 TOUCH

O Touchscreen graphic display

O Capacity: 220 g

○ **Resolution:** 0,0001 g (0,1 mg)

Analytical, digital scale of precision. Stainless steel plate. Protection case against air currents in laboratory. Upper opening for pipetting without removing the case.

Standard RS 232 output for connection to PC or printer.

Provided with standard 220V power supply.

Supplied with external standard weight for calibration 200 g - F1 class.

Supplied with Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and off-centre load.



Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 224 TOUCHSCREEN	INTERNAL + EXTERNAL	80	± 0,0002	± 0,0005	27006013

BL 224

O Capacity: 220 g

○ **Resolution:** 0,0001 g (0,1 mg)

Analytical, digital scale of precision. Backlit display. Stainless-steel plate. Protection case against air currents in laboratory. Upper opening for pipetting without removing the case. Piece counter mode, determination of %, formulations, pipette calibration function, statistics and density calculation (with optional accessory kit).

Standard RS 232 output for connection to PC or printer.

Provided with standard 220V power supply.

Supplied with Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and off-centre load.



Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 224	INTERNAL + EXTERNAL	90	± 0,0001	± 0,0002	27006003



BL 224 BASIC

O Capacity: 220 g

O **Resolution:** 0,0001 g (0,1 mg)

Analytical, digital scale of precision. Backlit display. Stainless-steel plate. Protection case against air currents in laboratory. Upper opening for pipetting without removing the case. Standard RS 232 output for connection to PC or printer. Standard 220V power supply.

Supplied with external standard weight for calibration 100 g - E2class.

Supplied with Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and off-centre load.



Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 224 BASIC	EXTERNAL	90	± 0,0003	± 0,0003	27005993

BL 303

O Capacity: 300 g

○ **Resolution**: 0,001 g (1 mg)

Backlit display. Round plate with diameter 118 mm in stainless-steel.

Protection case against air currents in laboratory.

Upper opening for pipetting without removing the case.

Piece counter mode, determination of % and 21 different selectable measurement units.

Scale with dual power supply, AGM rechargeable battery and standard power supply.

Standard RS 232 output for connection to PC or printer.

Supplied with case and a weight of 100 g M1 class.

Provided with Certificate of calibration with weights Accredia certified, including test of repeatability, linearity and off-centre load.





RESTRUMENTS S

BL 602

Capacity: 600 gResolution: 0,01 g

Technical, digital scale of precision. Backlit Display. Round plate with diameter 118 mm in stainless-steel.

Protection case, easily removable, ideal for counting small pieces, protected from external disturbances.

Upper opening for pipetting without removing the case.

Piece counter mode, determination of % and 21 different selectable measurement units. Balance with dual power supply, AGM rechargeable battery standard power supply.

Standard RS 232 output for connection to PC or printer.

Supplied with case and 2 standard weights of 100 g M1 class.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 602	EXTERNAL	118	± 0,01	± 0,01	27000323

BL 2002

Capacità: 2000 gRisoluzione: 0,01 g



Technical, digital scale of precision. Backlit Display.

Rectangular stainless-steel plate.

Piece counter mode, determination of % and 21 different selectable measurement units.

Scale with dual power supply, AGM rechargeable battery and standard power supply.

Standard RS 232 output for connection to PC or printer.

Supplied with dust protection cover and a standard weight of 1 Kg M1 class.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 2002	EXTERNAL	188 x 148	± 0,02	± 0,02	27000313



BL 3001 / 6001

Capacity: 3 Kg / 6 KgResolution: 0,1 g

Technical, digital scale of precision. Backlit Display. Rectangular stainless-steel plate mm 188 x 148.

Piece counter mode, determination of % and 21 different selectable measurement units. Balance with dual power supply, AGM rechargeable battery and standard power supply.

Standard RS 232 output for connection to PC or printer.

Supplied with dust protection cover and a standard weight of 1 Kg M1 class.



Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 3001	EXTERNAL	188 x 148	± 0,2	± 0,2	27000113
BL 6001	EXTERNAL	188 x 148	± 0,2	± 0,2	27000123

BL BASIC: 2002 / 6001

O The cheapest

Capacity: 2000 g / 6000 gResolution: 0,01 g / 0,1 g

Technical, digital scale of precision with backlit Display.

Rectangular stainless-steel weighing plate.

Piece counter mode.

Scale with dual power supply, AGM rechargeable battery and standard power supply.



Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 2002 BASIC	EXTERNAL	160 x 120	± 0,02	± 0,02	27000303
BL 6001 BASIC	EXTERNAL	143 x 192	± 0,2	± 0,2	27000293

BL 30K 1

O Capacity: 30 Kg O Resolution: 0,1 g

Technical, digital scale of precision with backlit Display.

Rectangular stainless-steel weighing plate.

Piece counter mode, determination of % and different selectable

measurement units.

Scale with dual power supply, AGM rechargeable battery and standard power

SU	n	пl	٧.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 30K 1	EXTERNAL	330 x 260	± 0,2	± 0,2	27000133



O Capacity: 30 Kg

O Resolution: 1 g

Technical, digital scale of precision.

Rectangular stainless-steel weighing plate.

Piece counter mode, determination of % and different selectable measurement units. Scale with dual power supply, AGM rechargeable battery and standard power supply.

Standard RS 232 output for connection to PC or printer.



Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 30K	EXTERNAL	255 x 190	±1	± 3	27001203

BL 100K

O Capacity: 100 Kg

O Resolution: 10 g

Technical, digital scale of precision.

Removable backlit Display.

Rectangular stainless-steel weighing plate.

Piece counter mode, determination of % and different

selectable measurement units. Standard 220V power supply.





Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BL 100K	EXTERNAL	300 X 400	± 10	± 5 g (05 Kg); ± 10 g (520 Kg); ± 15 g (20100 Kg)	27001213



BM 113 MOISTURE ANALYSER

Capacity: 110 gReoslution: 0,001g



Precision thermoscale. Backlit Display.

Stainless steel round weighing plate with an external

diameter of 90 mm.

GLP protocol.

Internal memory for automatic sequence of 15 drying programs.

Three drying methods: Soft, Standard, Fast. Three switch-off methods: Auto, Manual, Timer.

400W Halogen lamp.

Standard RS 232 output for connection to PC or printer.

Supplied with: standard weight of 100 g for calibration and control, 50 aluminium plates, calibration report, including test of repeatability, linearity, off-centre load and

temperature check.



Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BM 113	EXTERNAL	90	40 199 °C	1 99 min	27001303
PLATES	Single use aluminium p	27000883			

BW 3000 WATERPROOF

Capacity: 3000 gResolution: 1 g

O IP67

O Double display





IP67 watertight digital precision technical scale.

Dual display, one on the front and one in the back, very useful for assembly line work.

Stainless steel rectangular weighing plate with dimensions 220 x 180 mm.

Piece counter mode, determination of %

Metal outer case

Scale with dual power supply, AGM rechargeable battery and standard power supply.

Name	Calibration	Ø Plate (mm)	Repeatability (g)	Linearity (g)	p/n
BW 3000	EXTERNAL	225 x 185	±1	± 1	27001003





ACCESSORIES

Name	Description	p/n
COVER	Protective cover for XS BALANCE compatible with the models: BL602, BL2002, BL3001, BL6001.	27000803
PRINTER RS 232	Thermal paper printer for XS BALANCE with RS 232 output.	27000863
CERTIFICATE	Accredited Calibration certificate Accredia for XS BALANCE. To be ordered together with the balance (when not already included)	27000903
WEIGHT 100 g	Weight 100 g in class M1 for XS Balances	27000813
WEIGHT 1 Kg	Weight 1000 g in class M1 for XS Balances	27000823

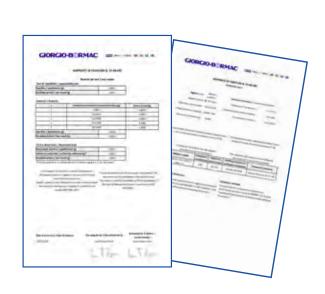
CALIBRATION REPORT

The certificate is filled in at Giorgio Bormac's company. Certificated Accredia weights are used for testing the scales.

On the Certificate are reported the test results of:

- REPEATIBILITY
- LINEARITY
- DECENTRED LOAD
- TEMPERATURE CHECK (only BM 113)

According to Accredia guidelines for balance calibration



CENTRIFUGES













HOW TO IDENTIFY THE ACCESSORIES

FIRST LETTER

A = Fixed angle rotor

S = Swing out rotor

B = Bucket

SB = Swing out rotor + Buckets (KIT)

L = Lid of bucket

I = Insert for bucket

C = Cushion

RE =Reductor

T = Tube

PCR = PCR rotor

CENTRAL NUMBERS*

1° NUMBER = maximum number of tubes 2° NUMBER= capacity of the tube (mI)

Only in the reducers (RE), the central numbers identify the capacity reduction (ml); in case of only one central number, it represents the capacity. In the PCR rotor the central numbers identify the number of PCR strips and the number of tubes for each single strip.

FINAL LETTER

F = Falcon® tube or conical bottomed tube included

P = Plastic round-bottomed tube included

G = Glass round-bottomed tube included

R = Suitable for round-bottomed tube

X = Additional bucket (long version)

A 32-15 N	Fixed-angle rotor for 32 – 15 ml tubes
S 4 - 175	Swing out rotor for 4 buckets of 175 ml
B16-5/7	Aluminium bucket for 16 tubes of 5/7 ml
SB 4-175	Kit composed by swing out rotor S 4-175 and 4 glasses B 175 of 175 ml
I 4-15R	Insert for 4 round-bottomed tubes of 15 ml
RE 50-15F	Conical bottomed reductor from 50 ml to 15 ml
B 50XF	Test tube rack extra version with Falcon® test tube 50 ml



CENTRIFUGING

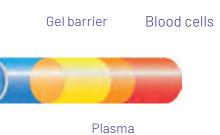
The centrifuges are instruments used in many laboratories to separate particles in liquid solutions or in liquids with a different density, using an artificial centrifugal field.

The application of the centrifuges allows to develop a much higher force than the Earth's gravity, speeding-up the separation and sedimentation process.

SWING OUT ROTORS (with variable angle)

During the centrifugation, the tubes turn into a perpendicular position with respect to the rotation axis of the rotor. Therefore, the distance and the time necessary for the sedimentation are higher, but the phases limits develop clearly and perpendicular. The swing out rotors are generally used to centrifuge a bigger quantity of samples at medium speed.

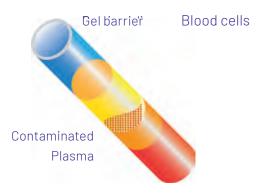


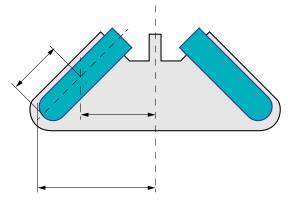


ANGLE ROTORS (with fixed angle)

The oblique angle of the tubes reduces the sedimentation distance, decreasing the necessary time for the separation of the phases, that are inclined with respect to the tube and less net. The angle rotors are generally used to centrifuge a smaller quantity of samples at high speed.







The simplified formula for the RCF is: $RCF = (n/1000)^2 \times r \times 11,18$ where n = speed (rpm) and r = ray in cm

CALCULATION OF THE CENTRIFUGAL FORCE

Generally, the performances of a centrifuge are indicated following the maximum achievable speed. However, the speed indicates approximately the real force which developed in the centrifuged sample and which generates the separation. This power expresses as Relative Centrifugation Force (RCF). Its value indicates the multiple of times that the force exceeds the acceleration caused from the gravity "g".

Looking at the formula here on the left, the RCF is directly proportional to the ray of the rotor and linked to the square of the speed. This means that the RCF doubles if the ray doubles and quadruples if the speed doubles.

Therefore, the performances of the centrifuges should be compared on values expressed in RCF only.



NEYA 8 Basic

- O Maximum loading capacity: 4x175 ml
- O Maximum speed: 6000 rpm
- Automatic rotor detection
- Control of the maximum speed of the rotor
- Safety speed limiter function
- O Backlit colour LCD display



Ventilated benchtop centrifuge with **automatic rotor detection**, check of presence of accessories and of allowed max. speed.

Speed limiter for laboratory safety. Display of all centrifugation parameters on a single screen. Low number of keys, adjustment handle with confirming function and guide for an extremely intuitive operativity.

Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 6000 rpm (subjected to the placed rotor) with step of 50 rpm. Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function. Acceleration and deceleration adjustable on 3 levels.

The centrifuge follows the directives EN61010-1; EN61010-2-020; EN61326-1.

Compact sizes to optimize the space in laboratory

The room access height of only 27,5 cm makes the loading and unloading operation of the centrifuge easy.

Power supply: 220V, 50 Hz. Max. noisiness: 55 dB

Name	Max load	Max speed.	External dimensions (L x W x H)	Weight	p/n
NEYA 8 WITHOUT ROTOR	4 x 175 ml	6000 rpm	45 x 59 x 33 cm	40 Kg	40100302



NEYA 10 Professional

- O Maximum loading capacity: 4x175 ml
- O Maximum speed: 6000 rpm
- O Automatic rotor detection
- Max speed control
- O Safety speed limiter function
- O Backlit display multicolor LCD



Ventilated benchtop centrifuge with automatic rotor detection, check of presence of accessories and of allowed max. speed. Speed limiter for laboratory safety. Display of all centrifugation parameters on a single screen.

Low number of keys, adjustment handle with confirming function and guide for an **extremely intuitive operativity**. Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 6000 rpm (subjected to the placed rotor) with step of 50 rpm. Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function.

Acceleration and deceleration adjustable on 3 levels.

Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.

Imbalance detection system with automatic functioning stop. The centrifuge follows the directives EN61010-1; EN61010-2-020; EN61326-1.

Compact sizes to optimize the space in laboratory The room access height of only 27,5 cm makes the loading and unloading operation of the centrifuge easy.

Power supply: 220V, 50 Hz. Max. noisiness: 55 dB

NEYA 10 R

REFRIGERATED VERSION

Adjustable temperature from -10 °C to +40 °C (from +14 to +104 °F) with increases and decreases of 1 °C (or 1°F). "Precool "function for the fast cooling of the centrifuge

Power supply: 220V, 50 Hz. Max. noisiness: 55 dB



Name	Max load	Max speed	External dimensions (L x W x H)	Weight	p/n
NEYA 10 WITHOUT ROTOR	4 x 175 ml	6000 rpm	45 x 59 x 33 cm	40 Kg	40100312
NEYA 10 R WITHOUT ROTOR	4 x 175 ml	6000 rpm	73 x 64 x 33 cm	70 Kg	40100332



NEYA 16 High Speed

- O Maximum loading capacity:: 4x175 ml
- O Maximum speed: 16000 rpm



automatic rotor detection, check of presence of accessories and of allowed max. speed. Speed limiter for laboratory safety. Display of all centrifugation parameters on a single screen. .

Low number of keys, adjustment handle with confirming function and guide for an extremely intuitive operativity.

Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 16000 rpm (subjected to the rotor placed) with step of 50 rpm. RCF adjustable up to 21000 xg (subjected to the placed rotor).

Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function. Acceleration and deceleration adjustable on 10 levels. 10 Programs with overwriting security system.

Centrifugal function SPIN.

Acoustic and lighting end-of-centrifugation warning. Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence. Imbalance detection system with automatic functioning

The centrifuge follows the directives EN61010-1; EN61010-2-020; EN61326-1.

Compact sizes to optimize the space in laboratory The room access height of only 27,5 cm makes the loading and unloading operation of the centrifuge easy.

Max. noisiness: 55 dB Power supply: 220V, 50 Hz. Warranty: 24 months



REFRIGERATED VERSION

Adjustable temperature from -10 °C to +40 °C (from +14 to +104 °F) with increases and decreases of 1 °C (or 1°F). "Precool" function for the fast cooling of the centrifuge.



Name	Max load	Max speed	External dimensions (L x W x H)	Weight	p/n
NEYA 16 WITHOUT ROTOR	4 x 175 ml	16000 rpm	45 x 59 x 33 cm	40 Kg	40100322
NEYA 16R WITHOUT ROTOR	4 x 175 ml	16000 rpm	73 x 64 x 33 cm	70 Kg	40100342



40003492

SWING OUT ROTORS

Name	Description	p/n
SB 4-175 KIT	Kit includes : Swing out rotor S 4-175 , maximum capacity 4 x 175 ml. Maximum speed 4.500rpm, RCF max. 3600xg. 4 buckets B 175 4 Biosafe lids L 175	40100502
L 175 SPARE PART COVER	Biosafe lid for bucket B 175.	40101522
B 175 SPARE PART GLASS	Aluminium bucket of 175 ml for rotor S 4-175.	40101512





INSERTS FOR BUCKETS B 175 – KIT OF 4 PIECES – Tubes not included

Name	Description	Max Tubes	p/n
I 12-2	Kit of inserts (12 tubes each) of 1,5-2 ml type Eppendorf ®	48	40100602
17-5/7	Kit of inserts (7 tubes each) from levy Vacutainer $^\circ$ of 5-7 ml. (Ø x L) 13x75 and 13x100 mm.	28	40100612
I 7-10	Kit of inserts (7 tubes each) from levy Vacutainer $^\circ$ of 10 ml. (Ø x L) 16x100 mm	28	40100622
I 4-15 F	Kit of inserts (4 tubes each) with conical bottom type Falcon® of 15 ml. (Ø x L) 17x120 mm	16	40100632
I 4-15 R	Kit of inserts (4 tubes each) with round bottom of 15 ml (Ø x L) 17x110 mm	16	40100642
I 1-50 SF	Kit of inserts (1 tube each) with conical bottom type Falcon® of 50 ml (Ø x L) 29x116 mm. The insert is suitable with conical bottomed self-standing tubes.	4	40100682
I 1-50 R	Kit of inserts (1 tube each) with round bottomed of 50 ml. (Ø x L) $30x110$ mm	4	40100662
I 1-100	Kit of inserts (1 tube each) with round bottomed of 100 ml. (Ø x L) 46x102 mm	4	40100672
TUBES			
Name	Description		p/n
T 15F	Plastic tube type Falcon® of 15 ml (Ø x L) 17 x 120 mm		40003402
T 15G	Glass round bottomed tube of 15 ml (Ø x L) 17 x 110 mm (max. speed 3000 rpm)		40003412
T 15P	Plastic round bottomed tube of 15 ml (Ø x L) 17 x 102 mm		40003422
T 50F	Plastic tube type Falcon® of 50 ml (Ø x L) 29 x 116 mm		40003432
T 50G	Glass round bottomed tube of 50 ml (\emptyset x L) 30 x 110 mm (max. speed 3000 rpm)		40003442
T 50P	Plastic round bottomed tube of 50 ml (Ø x L) 30 x 100 mm		40003452
T 100G	Glass round bottomed tube of 100 ml (Ø x L) 46 x 102 mm (max. speed 3000 rpm)		40003462
T 100P	Plastic round bottomed tube of 100 ml (Ø x L) 46 x 100 mm		40003472

T 175

Plastic tube with round bottom of 175 ml with screw lid ($\emptyset \times L$) 57 \times 97 mm



SWING OUT ROTORS

Name	Description	p/n
S 4-175 ONLY ROTOR	Swing out rotor maximum capacity 4 x 175 ml for aluminium carrier and buckets. Max. speed 4.500rpm, RCF max. 3.600 xg.	40101502
S 6-96 MP PLATES INCLUDED	Swing out rotor for microplates, maximum capacity of 6 plates of 96 wells. Maximum speed 3.200rpm, RCF max. 1.950 xg. Supplied with 2 trays.	40100522





CARRIERS FOR SWING OUT ROTOR S 4-175

Set of 4 pieces.

Name	Description	Max n° of tubes	p/n
B 2-50 F	Carrier for 2 conical bottomed tube type Falcon® of 50 ml (Ø x L) 29x116 mm.	8	40101532
B 2-50 R	Carrier for 2 round bottomed tubes of 50 ml (Ø x L) 30x110 mm .	8	40101582
B 7-15 F	Carrier for 7 conical bottomed tubes type Falcon® of 15 ml (Ø x L) 17x120 mm.	28	40101542
B 7-15 R	Carrier for 7 round bottomed tubes of 15 ml (Ø x L) 17x110 mm.	28	40101592
B 12-10	Carrier for 12 collection tubes Vacutainer® of 10 ml (Ø x L) 16x110 mm.	48	40101552
B 14-5/7	Carrier for 14 collection tubes Vacutainer® of 5-7 ml (Ø x L) 13x100 mm.	56	40101562
B 16-5/7	Carrier for 16 collection tubes Vacutainer® of 5-7 ml (Ø x L) 13x75 mm.	64	40101572



HIGH CAPACITY FIXED ROTORS

Name	Description	Max. speed.	RCF max (xg)	n° of tubes max	p/n
A 32-15 N	37° fixed angle rotor for 15 ml tubes	5200	4020	32	40100802
A 8-50	37° fixed angle rotor for 50 ml tubes	6000	4800	8	40100812

A 6-100



37° fixed angle rotor for 100

5000

3330

6

40100822

All the rotors are supplied without buckets.

BUCKETS- FOR HIGH CAPACITY ROTORS - TUBES INCLUDED

For rotor	Name	Description	p/n
	B 15 F	For conical bottomed tubes of 15 ml. Complete with Falcon® tube of 15 ml. (Ø x L) 17x120 mm	40101002
A 32-15 MIN. 32 PCS	B 15 G	For round bottomed tubes of 15 ml . Complete with glass tube of 15 ml. (Ø x L) 17x110 mm	40101012
	B 15 P	For round bottomed tubes of 15 ml . Complete with plastic tube of 15 ml . (Ø x L) 17x102 mm	40101022
A 6-50	B 50 XF	for conical bottomed tubes of 50 ml. Complete with Falcon® tube of 50 ml (Ø x L) 29x116 mm	40101032
MIN. 6 PCS A 8-50	B 50 XG	for round bottomed tube of 50 ml. Complete with glass tube of 50 ml (Ø x L) 30x110 mm	40101042
MIN. 8 PCS	B 50 XP	for round bottomed tubes of 50 ml. Complete with plastic tube of 50 ml. (0 x L) 30x100 mm	40101052
A 6-100 MIN. 6 PCS	B 100 G	for round bottomed tubes of 100 ml. Complete with glass tube of 100 ml. (Ø x L) 46x102 mm	40101092
	B 100 P	for round bottomed tubes of 100 ml. Complete with plastic tube of 100 ml. (Ø x L) 46x110 mm	40101102



HIGH SPEED ROTORS

FOR **NEYA 16** AND **NEYA 16** F

	IOPELL	NOIONE) FOR N			
Name		Description	Max speed (rpm)	RCF max (xg)	n° of tubes max	p/n
A 6-50 HIGH SPEED		34° fixed angle rotor for 50 ml tubes. With BIOSAFE lid It is supplied without buckets.	9500	10050	6	40100862
A 12-5	\$ (P)	45° fixed angle rotor for 5 ml Eppendorf® tubes With BIOSAFE lid	14000	20380	12	40100832
A 24-2		45° Fixed angle rotor for 1,5-2 ml Eppendorf® tubes With BIOSAFE lid	15000	21000	24	40100842
A 36-05		37° fixed angle rotor for 0,5 ml Eppendorf® tubes With BIOSAFE lid	15000	21.000	36	40100852
PCR 4-8	(F)	45° fixed angle rotor for PCR strip of 8 tubes With BIOSAFE lid	15000	21000	4	40100872

REDUCTORS - COMPLETE WITH BUCKETS - TUBES NOT INCLUDED

Name	Description	p/n
RE 15-5/7	Reductor for round bottomed tubes of 5/7 ml (\emptyset x L) 13x75 and 13x100 mm for rotor A32-15N	40101292
RE 50-15 F	Reductor for conical bottomed tubes type Falcon® of 15 ml. (Ø x L) 17x120 mm for rotor A 8-50 e A 6-50	40101322
RE 50-15 R	Reductor for round bottomed tubes of 15ml (Ø x L) 17x110 mm for rotor A 8-50 and A 6-50	40101332
RE 50-10	Reductor for round bottomed tubes of 10 ml (0 x L) 16x100 mm for rotor A 8-50 and A 6-50	40101342
RE 100-50 F	Reductor for conical bottomed tubes of 50 ml type Falcon®. (Ø x L) 29x116 mm for rotor A 6-100	40101352
RE 100-50 R	Reductor for round bottomed tubes of 50 ml (\emptyset x L) 30x110 mm for rotor A 6-100	40101362
RE 100-15 F	Reductor for conical bottomed tubes of 15 ml type Falcon®. (Ø x L) 17x120 mm for rotor A 6-100	40101372
RE 100-15 R	Reductor for round bottomed tubes of 15 ml (Ø x L) 17x110 mm for rotor A 6-100	40101382

REDUCTORS - TUBES NOT INCLUDED

Name	Description	p/n
RE 2-05	Reductor for microtubes of 0,5 ml for rotor A 24-2. Kit of 24 pieces	40101262
RE 2-02	Reductor for microtubes of 0,2 ml for rotor A 24-2. Kit of 24 pieces.	40101272
RE 05-02	Reductor for microtubes 0,2 ml for rotor A 36-05. Kit of 36 pieces	40101282



NEW NEYA 5

- O Fixed and swing-out hybrid rotor
- O Reduced dimensions
- O Bright LCD Display
- O Motorized Lid opening
- 5 storable **programs**
- O1 direct access programme
- O Acceleration and deceleration ramps
- O Speed limiter for laboratory safety
- O Automatic lid locking
- O Structure and lid in ABS
- O Load imbalance detection system



Laboratory centrifuge designed for high performance, maximum reliability and versatile use in different scientific and medical contexts.

Thanks to the **fixed and swing-out hybrid rotor**, it is suitable for several applications, ensuring accurate and repeatable results.

The compact design optimizes the working space, while the bright LCD display allows all parameters to be monitored clearly and intuitively.

Equipped with a maintenance-free brushless induction motor, the centrifuge ensures silent operation, lasting and deposit-free. Cycle management is made simple and customizable thanks to **5 storable programs and 1 direct access program**, with the possibility to digitally adjust the acceleration/deceleration ramps and braking. End-cycle acoustic signal.

Designed to ensure maximum safety, equipped with a speed limiter, an unbalancing control system with automatic stopping and an automatic lid locking system during operation.

In the event of power failures, the ${\bf safe}$ ${\bf opening}$ of the lid protects the operator.

The inner ABS chamber is designed for easy loading and unloading of the samples and the entire ABS structure assures durability and easy cleaning.

Compatible with blood and urine test tubes, it offers a full range of accessories to meet every need.

Built according to European directives, this centrifuge is the perfect combination of advanced technology, operational efficiency and attention to safety, making it an essential instrument for any modern laboratory.

Power supply: 220V, 50 Hz, 375 W. Noise level: 55 dB.



hybrid rotor

p/n

	Turite	Description	Pili
NEW	NEYA 5	Centrifuge	40100202
NEW	HYBRID ROTOR FIXED	Fixed-angle rotor with 15 ml and 50 ml carrier, tube-holder included	40110102
NEW	HYBRID ROTOR SWING OUT	Swing-out rotor with 15 ml and 50 ml carrier, tube-holder included	40110112
NEW	HYBRID ROTOR BLOOD KIT	Fixed and swing-out angle rotor with 10 ml carrier and 5,7 ml reducer vacutainer tubes, tube holder and reducers included	40110122
NEW	FIXED KIT 15 ml - 50 ml	Fixed angle kit equipped with 15 ml carrier (set of 4 pcs) and 50 ml carrier (set of 4 pcs) complete with tube holder	40110302
NEW	SWING OUT KIT 15 ml - 50 ml	Swing-out kit equipped with 15 ml carrier (set of 4 pcs) and 50 ml carrier (set of 4 pcs) complete with tube holder	40110312
NEW	BLOOD KIT	Fixed and swing-out angle kit equipped with: One fixed-angle carrier for 10 and 5-7 ml Vacutainer tubes (set of 4 pcs)	40110322

Description

Name

Complete with RE15-5.7S and RE15-7L reducers, tubes-holder included



FIXED ANGLE HYBRID ROTOR CONFIGURATION

Complete with 15 ml and 50 ml carrier Maximum RPM: 4700 – Maximum RCF 3350g	15 ml fixed angle carrier (set of 4) included			50 ml fixed-angle carrier (set of 4) included			_
Tubes capacity (ml)		2 x 15 ml			1 x 50 ml		
Total tubes per rotor		8 x 15 ml		4 x 50 ml			
Dimensions (Ø × L mm).	17x120	17x110 Glass	17x102 Plastic	29x116	30x110 Glass	30x100 Plastic	U
Compatible test tubes not included and not providable				1001 1000			
Bottom shape included	15 ml 15 n conical spher			50 ml conical	50 ml spherical		





p/n: 40110102

SWING-OUT HYBRID ROTOR CONFIGURATION

Complete with 15 ml and 50 ml carrier. Maximum RPM: 4700 – Maximum RCF 3560g	15 ml Swing-out carrier (set of 4) included			50 ml Swing (set of 4) inc			
Tubes capacity (ml)	2 x 15 ml						
Total tubes per rotor	8 x 15 ml			4 x 50 ml			
Dimensions (Ø × L mm).	17x120	17x110 Glass	17x102 Plastic	29x116	30x110 Glass	30x100 Plastic	
Compatible test tubes not included and not providable							
Bottom shape included	15 ml 15 ml conical spherical		50 ml 50 ml conical spherical				





p/n: 40110112

FIXED AND SWING-OUT HYBRID ROTOR CONFIGURATION (BLOOD KIT)

Complete with 10 – 5.7 ml carrier for fixed angle and 10 – 5.7 mm carrier for swing-out RPM max: 4700 fixed angle RCF msx: 3350 fixed angle 3560 swing-out rotor	10 – 5.7 ml Fixed-ang (set of 4) i	le carrier		10 – 5.7 m (set of 4) ii	l swing-out c ncluded	arrier	
Tubes capacity (ml)	2	2 x 10 ml / 5.7 ml		2 x 10 ml / 5.7 ml			
Total tubes per rotor	8	8 x 10 ml / 5.7 ml		8 x 10 ml / 5.7 ml			
Dimensions ($\emptyset \times L$ mm).	16x100	13x75 Glass	13x100 Plastic	16x100	13x75 Glass	13x100 Plastic	
Vacutainer tubes not included and not providable							
Reducer included	-	RE15-5.7S	RE15-5.7L	-	RE15-5.7S	RE15-5.7L	
p/n: 40110122							



NEW R-5D

- O Maximum loading capacity 12X15 ml
- O Max speed 5250 rpm
- O Max RCF 4280xg
- O Timer from 1 to 60 min or continuous



with LCD display to set the speed and time of centrifugation.

Reduced number of buttons and adjustment knob for an extremely intuitive use.

Equipped with free-maintenance and silent induction motor.

Adjustable speed from 500 to 5250 rpm with step of 50 rpm. Centrifugation time from 1 to 99 minutes with increases of 1 minute or Continuous function.

Reduced breaking time thanks to the function BREAK

Maximum safety thanks to the automatic imbalance detection

Automatic lid locking system with possibility to recover the test tubes in case of power failure.

Reduced dimensions to optimize the space in laboratory

Power supply: 220V, 50 Hz, 250W. Maximum noise level: 53 dB



NEW

Aluminium rotor R-83A, 12x15 ml fixed-angle, steel carrier B 15 P and 15 ml plastic round bottomed tubes T 15-P 17x100 mm.



R-83 A

	Name	Load capacity	Max speed	External dimensions (L x W x H)	Weight	p/n
/	R-5D CENTRIFUGE	12 X 15 mI	5250 rpm	290 x 320 x 440	18,5 Kg	40000022

ACCESSORIES - FOR R-5D

Name	Description	p/n
R-83 A ROTOR	Spare rotor complete with test tubes and carriers B 15-P	40000272
B 15-P CANISTER	Spare carriers complete with 15 ml plastic tube	40101022
B 15-F CANISTER	Spare carriers complete with 15 ml Falcon tube	40101002
RE 15-5/7	Reducer for 5/7 ml round-bottomed tubes (Ø x L) 13x75 and 13x100 mm for rotor R 83-A	40101292

MULTISPIN 12 ULTRACOMPACT

- O Maximum loading capacity 6 X2 ml
- O Max speed 12000 rpm
- O Timer from 30 sec to 99 min

Ultra-compact minicentrifuge, equipped with silent induction motor and maintenance free; speed: adjustable from 1000 to 12,000 rpm with steps of 1000 in 1000 rpm.

Power supply: 220V, 50-60 Hz. Max. consumption: 30 W.

Max. noisiness: 45 dB.



Supplied with 2 rotors:

model A 6-2 able to hold simultaneously no. 6 tubes of 2 ml, no. 6 tubes of 0,5 ml, nr. 6 tubes of 0,2 ml; model PCR 2-8 for no. 2 strips of 8 PCD tubes of 0,2 ml.

Name	Load capacity	Max speed	External dimensions (L x W x H)	Weight	p/n
MULTISPIN 12 MINICENTRIFUGE	6 x 2 ml	12000 rpm	122 x 176 x 196 mm.	1,5 Kg	40005012





STIRRERS













All these instruments have passed the rigorous quality and reliability tests that Giorgio Bormac prepares on each new product.

The manufacturer, ISO 9001-certified and based in P.R.C., agreed to make the improvement changes we requested. With

this in mind, we decided to use our trademark: **RGO**



Argo is the name of our dog, a black Labrador mix, whose strength and loyalty cheers our days at the office and at

home.. That is why we want these tools to become faithful and reliable companions for your laboratory over time.





MS-D

Digital magnetic stirrer

LED display with continuous indication of the stirring speed.

Plate diam. 135 mm in Nylon + GF for excellent chemical resistance.

Maintenance-free induction motor. Degree of protection: IP 42.

Dimensions (LxWxH): 260x150x80mm.



Name	Volume	Speed	p/n
MS-D	3 L	2001500 rpm	22002003

M2-A

Analogic magnetic stirrer with **heating plate**. Stainless steel plate with diameter of 135 mm. Induction motor without maintenance. Degree of protection: IP 42. Dimensions (LxWxH): 280x160x65mm.



Name	Volume	Speed	T Max heating	Power heating	p/n
M2-A	20 L	01500 rpm	340 °C	500 W	22002013

M2-D Pro

Digital magnetic stirrer microprocessor with heating plate.

Multifunction LCD display with continuous indication of speed and temperature. Control and maximum temperature protection with visual alarm on the display, "Stirring" function control. Stainless steel plate with diameter of 135 mm. Input for external temperature probe PT 1000, RS 232 interface for remote control.

Induction motor without maintenance.

Degree of protection: IP 42. Dimensions (LxWxH): 280x160x65mm.



Name	Volume	Speed	T Max heating	Power heating	p/n
M2-D Pro	20 L	01500 rpm	340 °C	500 W	22002063

M3-D

Digital magnetic stirrer microprocessor with ceramic glass plate. LED display with continuous indication of temperature. Accuracy \pm 1 °C with internal sensor, \pm 0,2 °C with external sensor. Plate size 184 x 184 mm. Input for external temperature probe PT 1000. Induction motor without maintenance. Degree of protection: IP 21. Dimensions (LxWxH): 215x360x112mm.

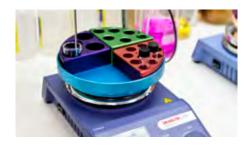


Name	Volume	Speed	T Max heating	Power heating	p/n
M3-D	10 L	01500 rpm	550 °C	1000 W	22003013



ACCESSORIES FOR MAGNETIC STIRRERS

Description	p/n
Adjustable support for PT 1000	22002523
PT 1000 probe, length 230 mm for stirrer M2-D Pro, M3-D	22002513
Reaction block for 100 ml round bottom flask	22002663
Reaction block for 250 ml round bottom flask	22002673
Reaction block for 500 ml round bottom flask	22002683
Black test tube block 4 holes 40ml Ø 28 mm	22002623
Blue test tube block 4 holes 30ml Ø 28 mm	22002613
Violet test tube block 4 holes 20ml Ø 28 mm	22002603
Gold test tube block 4 holes 16ml Ø 21,6 mm	22002643
Green test tube block 6 holes 8ml Ø 17,8 mm	22002633
Red test tube block 11 holes 4ml Ø 15,2 mm	22002593
Base for insertion of heating blocks	22002583
Plastic protective cover for stirrer M2-A, M2-D Pro	22002533



Example of using the test tube holder



AM 20-D

Mechanical shaft stirrer with LED display.

Safe stop function with indicator light for overheating motor.

Upper passage hole for stirring shafts.

Supplied with automatic spindle (Ø shaft max 10 mm).

Protection degree IP 42. Power supply 220V. Warranty: 24 months.

Supplied without universal reaction block (check part no. 22005153).



Name	Stirring Volume	Speed	Power	p/n
AM 20-D	20 L	502.200 rpm	50 W	22005013

AM 40-D Pro

Mechanical shaft stirrer with LCD display.

Effort control with speed auto-adjustment.

Torque trend display.

Safe stop function with indicator light for overheating motor .

Upper passage hole for stirring shafts.

Supplied with automatic spindle (Ø shaft max 10 mm).

Protection degree IP 21. Power supply 220V.

Supplied without universal reaction block (check part no. 22005153).



Name	Stirring Volume S		Power	p/n
AM 40-D PRO	40 L	502.200 rpm	100 W	22005043





ACCESSORIES for AM 20-D and AM 40-D PRO

Description	L	Ø	Breadth	Material	p/n
TVDF1 On the first of the first	400 mm	8 mm	90 mm	Stainless steel 316L	22005193
TYPE 1: Stirring shaft with floating blade	350 mm	8 mm	89 mm	PTFE	22005333
TVDF 0 OV	400 mm	8 mm	60 mm	Stainless steel 316L	22005173
TYPE 2 : Stirring shaft with fixed blade.	350 mm	8 mm	70 mm	PTFE	22005313
	400 mm	8 mm	50 mm	Stainless steel 316L	22005163
TYPE 3 : Stirring shaft with propeller blade.	350 mm	8 mm	65 mm	PTFE	22005303
	400 mm	8 mm	68 mm	Stainless steel 316L	22005183
TYPE 4: Stirring shaft with 3 holes blade.	350 mm	8 mm	68 mm	PTFE	22005323
TYPE 5: Anchor stirrer rod shaft.	600 mm	8 mm	100 mm	Stainless steel 316L	22005203
TYPE 6: Gear wheel stirrer, rod shaft.	600 mm	8 mm	100 mm	Stainless steel 316L	22005213
UNIVERSAL STAND. Complete with clamp Dimensions: base 200 x 315 mm, height 800 mm, diameter 18 mm					
BECKER STAND with velcro strap and overgear chuck.					
CLAMP					22005413















Mixer for test tubes, speed regulation from 0... 2,500 rpm.

Operation by touch or continuously.

Orbital shaking movement.

Eccentric motor with oil-free gears.

Degree of protection IP 21.

Dimensions (L \times W \times H): 127 \times 160 \times 130 mm. Weight: 3.5 kg.



ACCESSORIES	
Description	p/n
Universal support for Argolab MIX - REQUIRED TO INSTALL THE ADAPTERS	22008103
Adapter for 6 mm tubes - 48 places	22008113
Adapter for 10 mm tubes - 15 places	22008153
Adapter for 12 mm tubes - 16 placesi	22008123
Adapter for 16 mm tubes - 8 places	22008133
Standard top cup	22008143
Platform pad	22008163



SKO-DXL

Shaking stirrer.

Double LCD display with indication of speed and time. Stirring time adjustment from 1min. ...20 hours or continuous.

Exit RS 232 for remote control.

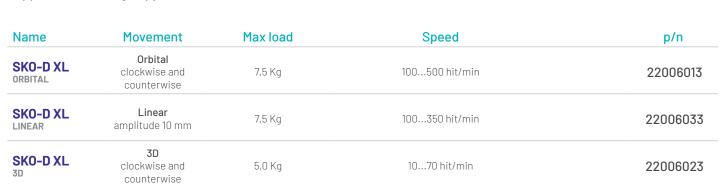
Maintenance-free brushless DC motor.

Plate dimensions: 320 x 320mm.

Overall dimensions (L \times W \times H): 370 \times 420 \times 100 mm. Weight: 13,5 Kg.

Protection degree IP 21. Power supply 220V.

Supplied without any support.



ACCESSORIES

Description	p/n
Support with anti-slip film	22006223
Universal support with 4 adjustable rollers	22006233
Additional bars for universal support	22006553
Drilled support for clips fixing	22006243
Fixing clip for flask volume 25 ml for fixing clip attachment. Max 28 clips	22006453
Fixing clip for flask volume 50 ml for fixing clip attachment. Max 16 clips	22006463
Fixing clip for flask volume 100 ml for fixing clip attachment. Max 16 clips	22006473
Fixing clip for flask volume 200/250 ml for fixing clip attachment. Max 9 clips	22006483
Fixing clip for flask volume 500 ml for fixing clip attachment. Max 9 clips	22006493



Dish attachment with non-slip mat





Universal attachment with 4 bars





Fixing clip attachment



ARGO LAB

SKI Shaking Incubators

Bench-top instrument that combines stirring and thermostating functions in a single instrument used for mixing liquids and incubating biological cultures.

The microprocessor control guarantees constant and optimal temperature control within the chamber, the heating prechamber (and cooling pre-chamber in the refrigerated model SKI 8-R), together with the forced air circulation ensure the optimal temperature distribution throughout working area.

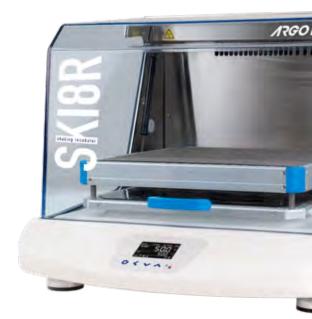
The easy and intuitive digital display allows to adjust:

- -orbital shaking speed with increase of 1 rpm (40 ... 300 rpm);
- -operating temperature with sensitivity to one-tenth of a degree (SKI 4 / SKI 8:+ 5° C Ta...+ 60° C /SKI 8 R :+ 4° C ...+ 60° C);
- -time of use with sensitivity per minute (from 1 min to 99.59 hours or continuous).

The gradually increasing stirring function up to the set speed ensures maximum sample safety.

The various platforms available allow maximum versatility of ArgoLab orbital shaking incubators in its SKI 4, SKI 8 and SKI 8-R models.

The SKI 4, SKI 8 and SKI 8-R instruments are supplied as standard with a flexible spring platform capable of housing different types of flasks, beakers and test tubes with different capacities; other platforms are also available: perforated for clips, with non-slip film with rubber bands and universal bar platforms.



APPLICATIONS

- Bacterial cultures and yeasts
 - Solubility studies
 - Extraction procedures
 - Mixing
- Coloration and decolorizations
 - Hybridisation
 - Diagnostic tests
 - Washing procedures
 - Protein production
 - · · · · ·
 - Plasma production
 - Biological shaker



Flexible spring platform as standard



Controller



NEW SKI 4

O Stirring speed: 40...300 rpm

O Temperature range: +5°C RT...60°C

O Stirring time: 1...9999 min (or continuous)

O Safety class 3.1 (DIN 12880)

Incubator with orbital stirring movement.

Wide backlit LCD display with simultaneous indication of set and actual temperature, stirring speed and time.

Temperature range over time at 37 $^{\circ}$ C of± 0.1 $^{\circ}$ C, temperature uniformity in space at 37 $^{\circ}$ C of± 0.5 $^{\circ}$ C. Maximum stirring width of 20 mm.

The instrument can be used as incubator only (stirring =0), and in stirring mode only (incubation= room temperature).

Universal platform with spring support and useful dimensions $320 \times 320 \text{ mm}$ suitable for holding beakers, flasks, test tubes and containers of different sizes and shapes, supplied as standard.

Possibility of housing holed support for beaker/flask clips. Large 8 mm thick plexiglass dome for optimal viewing of samples without heat loss, equipped with gas springs for an easy opening.

Stirring and heating blocking system for dome opening with automatic restart after closing.

Safety systems for overheating protection and adjustable fluid expansion safety thermostat. Safety class 3.1 (DIN 12880).

Maintenance-free induction motor.

Overall dimensions (W x D x H): $500 \times 610 \times 470$ mm. Weight: 40 kg. Power supply 220V, rated power 500 W.

Supplied with universal support and platform.





Holed support fixing clips

Name	Max capacity	Temperature range	Plate dimensions	p/n
OVI /		+ 5 RT + 60 °C	320 x 320mm	/1202012
SKI 4	4 L	+5KI+6U C	32U X 32UMM	41202012

ACCESSORIES

NEW

Description	p/n
Anti-slip film support for SKI 4 (fixing rubbers included)	41102052
Universal platform with nr. 4 adjustable bars for SKI 4	41102042
Additional bar for universal platform for SKI 4	41102062
Holed platform for fixing clips for SKI 4	41102112
Spring clips for 100 ml flasks for SKI 4 holed platform. Max. 23 clips	41102132
Spring clips for 200 / 250 ml flasks for SKI 4 holed platform. Max. 13 clips	41102142
Spring clips for 500 ml flasks for SKI 4 holed platform. Max. 8 clips	41102152
Spring clips for 1000 ml flasks for SKI 4 holed platform. Max 4 clips	41102162
Spring clips for 2000 ml flasks for SKI 4 holed platform. Max. 1 clip	41102172



NEW SKI 8 - SKI 8 R

O Stirring speed: 40...300 rpm

O Stirring time: 1...99:59 min (or continuous)

O Safety class 3.1(DIN 12880)

O Plate dimension 450 x 450 mm

Ventilated (SKI 8) or refrigerated biological incubator (SKI 8R), with orbital stirring.

Wide backlit LCD display with simultaneous indication of set and actual temperature, stirring speed and time. Temperature variation over time at 37 $^{\circ}$ C of ± 0.1 $^{\circ}$ C, temperature uniformity in space at 37 $^{\circ}$ C of ± 0.5 $^{\circ}$ C.

Maximum stirring width of 20 mm.



Universal spring-loaded platform with useful dimensions 450 x 450 mm suitable for holding beakers, flasks, test tubes and containers of different sizes and shapes, supplied as standard.

Possibility of housing holed support for beaker/flask clips.

Large 8 mm thick plexiglass dome for optimal viewing of samples without heat loss, equipped with gas springs for easy opening.

Stirring and thermostating blocking system for dome opening, with automatic restart after closing.

Safety systems for overheating protection and safety thermostat.

Safety Class 3.1 (DIN 12880).

Maintenance-free induction motor.

Height with open lid 990 mm.

Power supply 220V.

Supplied with universal stand and platform.

	Name	Max capacity	Temperature range	Power	Dimensions LxWxH(mm)	Weight Kg	p/n
NEW	SKI 8	8 L	+ 5 Rt 60 °C	1000 W	610 x 840 x 540 mm	55	41202022
NEW	SKI 8 R COOLED	8 L	+ 4 + 60 °C	1.300 W	610 x 950 x 540 mm	95	41202032

ACCESSORIES

Description	p/n
Universal platform 4 adjustable bars for SKI 8 R	41102072
Platform with anti-slip film (rubber bands included) for SKI 8 R	41102082
Holed platform for fixing clips for SKI 8 R	41102122
Spring clips for 100 ml flasks for SKI 8 R holed platform. Max. 36 clips	41102132
Spring clips for 200 / 250 ml flasks for holed platform SKI 8 R. Max. 18 clips	41102142
Spring clips for 500 ml flasks holed platform SKI 8 R. Max 16 clips	41102152
Spring clips for 1000 ml flasks for holed platform SKI 8 R. Max. 9 clips	41102162
Spring clips for 2000 ml flasks for holed platform SKI 8 R. Max. 4 clips	41102172





ARGO FILLER 3

Battery pipette filler, compatible with most of the plastic and glass pipettes from 1 to 100 ml, volumetric or graduated.

Exceptional aspiration and dispensing control thanks to compact and light design. Ergonomic design of the handle providing easy usability.

Eight different speeds of selection and large LCD display showing low battery warning.

The knurled handle, the ambidextrous design, the concave buttons and an easy control assure an easy and comfortable use of the operator's hands for many hours.

The fully autoclavable mouth includes a silicone adapter and a 0,45 μm hydrophobic membrane filter.

The kit includes the power supply for the rechargeable batteries and nr. 1 filter.



Name	Description	p/n
ARGO FILLER 3	Pipette filler	15100053
MEMBRANE FILTER SPARE PARTS	Membrane filters, hydrophobic 0,45µm. Kit of 10 pieces	15100573

0Z - OZONE GENERATORS

High power portable air / air Argolab ozonizers for home and professional use, equipped **with multifunction digital timer**, for daily/ weekly programs.

Ozone guarantee the natural inactivation of viruses, bacteria, mites, molds, spores, fungi, parasites and bad smells thanks to his hyperoxidizing capacity.

Ozone react in a short time, returning $\mathbf{0}_{\mathbf{2}}$ without leaving traces of toxins.





Name	Ozone production	Operation Area	Weight	Dimensions (LxWxH)	p/n
OZ 10	10 g/h	150 m³/h	4 Kg	380 x 170 x 260 mm	41400103
OZ 30	30 g/h	230 m³/h	4 Kg	380 x 170 x 260 mm	41400203

THERMOSTATATION













The ArgoLab instrument line offers advanced solutions for temperature control, combining precision, reliability and ease of use.

Designed to meet the needs of the most demanding laboratories, these instruments incorporate modern features such as intuitive displays, integrated data storage and fast transfer via USB.

Compliance with the strictest regulations, such as Safety Class DIN 12880, ensures the highest level of safety for samples and operators.

Every detail has been developed to simplify daily work: from high quality materials such as stainless steel with rounded corners for easy cleaning, to multi-step programs that allow complex cycles to be handled with great flexibility. Whether it be ovens, incubators or climatic chambers, ArgoLab offers complete and versatile solutions, ideal for scientific, industrial and research applications.

Choosing ArgoLab means investing in instruments that combine technological innovation and environmental sustainability, guaranteeing high performance and reduced environmental impact thanks to latest generation compressors and refrigeration systems.

ArgoLab: the reliable partner for your daily laboratory challenges.



4" touchscreen for intuitive and precise management

New touchscreen display of latest generation, designed for intuitive and precise setting management, with smooth navigation and full control of all operating functions.

Graphic display of parameters in real time

Continuous and detailed temperature monitoring, time and program status, with clear graphs for complete data control.



Complete logging and alarm management

Advanced memory that automatically records data and events, with alarm function and operation history for flawless and precise control.

Multi-user access with three security levels

Three authorization levels, all password-protected, to ensure security and control of sensitive parameters and device use in shared environments.

Temperature ramps for complex cycles

Advanced heat cycle management with adjustable temperature ramps, perfect for applications requiring precision and variability.

Internal Storage and Data Transfer via USB

The integrated storage unit ensures continuous storage of operating parameters and over 200,000 process data. The USB port increases the storage capacity and enables fast transfer of the entire archive, including the alarm and operation log, facilitating complete and immediate documentation of activities.







New LCD screen for clear and immediate view

Modern and intuitive display of all essential parameters on one screen: actual and set temperature, fan speed and program status.

Multi-step programming for every need

Managing support up to 64 multi-step programs, offering advanced solutions for any laboratory sequence.

Door switch for safe operations

Door switch for secure loading and unloading operation of samples integrated on all ovens, also perfect for forced-ventilated incubators

Internal memory and USB download for data management

The integrated storage unit ensures continuous storage of operating parameters and process data. The USB port increases the memory and enables fast transfer of the entire data archive, facilitating complete and immediate documentation of activities.









- O Working range: +5 °C RT ... +300 °C
- O 4" colour touchscreen display
- O Real-time graphic monitoring
- O 10 storable programs
- O 3-level multi-user management with password
- O Alarms, operations and data Logging
- O Direct download on USB
- O Adjustable temperature ramps

It offers a 4-inch touchscreen display with simultaneous viewing of all parameters, including real-time graphic monitoring of temperature and program status.

Equipped with visual and acoustic alarms system that can be easily silenced, the oven also includes advanced user management with three authorization levels, each password protected, to improve the operating parameters security.

The **programmable digital timer** allows cycles of up to 99 hours and 59 minutes, with the option for continuous operation and delayed start.

A door switch facilitates safe loading and unloading of samples, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

The oven supports adjustable temperature ramps, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operation and data logs.

All information can be downloaded directly on a USB drive, ensuring advanced documentation and traceability.



Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluid-expansion maximum temperature controller and an integrated hole (Ø 5 mm) to insert external sensors, ensuring internal temperature control and certification.

A versatile and safe solution, perfect for the most demanding applications.

Stainless steel chamber with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning. Power supply 220±10% V - 50/60 Hz.

Supplied with

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and a USB drive for data recording and transfer.

TCN SUPER MODELS

	Name	(I)	at 150 °C	a 150 (°C)	LxWxH (mm)	(kg)	(W)	p/n
NEW	TCN 50 SUPER	50	± 0,5	± 3,5	690 x 540 x 635	53	1000	41200502
NEW	TCN 115 SUPER	115	± 0,5	± 3,5	815 x 670 x 750	74	1900	41200512
NEW	TCN 200 SUPER	200	± 0,7	± 4,0	940 x 730 x 905	103	2100	41200522

TCN PLUS MODELS

	Name	Volume (I)	Stability at 150 °C	Homogeneity a 150 (°C)	External dim. LxWxH(mm)	Weight (kg)	Power (W)	p/n
ΕW	TCN 30* PLUS	30	± 0,5	± 3,5	460 x 600 x 685	40	700	41200062
ΕW	TCN 50 PLUS	50	± 0,5	± 3,5	690 x 540 x 635	53	1000	41200002
ΕW	TCN 115 PLUS	115	± 0,5	± 3,5	815 x 670 x 750	74	1900	41200012
ΕW	TCN 200 PLUS	200	± 0,7	± 4,0	940 x 730 x 905	103	2100	41200022

^{*} Working range TCN 30: +5°C T RT. ... +200 °C

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NEW TCN Plus

- O Working range:: +5 °C RT ... +300 °C
- O Backlit LED display
- O 10 storable **programs**
- O Data Logging
- O Direct download on USB

The ArgoLab PLUS version oven offers a black **backlit LCD display** that allows simultaneous viewing of all main parameters, including actual and set temperature.

Equipped with a visual and acoustic alarm system that can be easily silenced, the oven also includes a USB* port for data download.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.

A door switch* facilitates safe loading and unloading of samples, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

The data storage system* is complete and supports direct download to a USB drive, ensuring simple and secure data management.

Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluid-expansion maximum temperature controller and an integrated hole (\emptyset 5 mm) to insert external sensors, ensuring internal temperature control and certification.



A versatile and safe solution, perfect for the most demanding applications.

Stainless steel chamber with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

Power supply $220 \pm 10\% \text{ V} - 50/60 \text{ Hz}$.

Supplied with:

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and USB drive for data recording and transfer..

*not available on TCN 30

TCN ACCESSORIES (SUPER and PLUS)

Description	Picture	p/n
Steel wire shelf for TCN 30	#millimminimm	41100142
Steel wire shelf for TCN 50		41100102
Steel wire shelf for TCN 115		41100112
Steel wire shelf for r TCN 200		41100122
Steel holed platform TCN 30		41100192
Steel holed platform TCN 50	<i>=====================================</i>	41100152
Steel holed platform TCN 115		41100162
Steel holed platform TCN 200		41100172
Ø 25 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110152
Ø 50 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110142
Wheels for TCN 200. Set of 4 pieces		41101172
ArgoLab IQ-0Q manual		41119002



NEW TCF JUPGE

- O Working range: +10 °C RT ... +300 °C
- O 4" colour touchscreen display
- O Real-time graphic monitoring
- O 10 storable programs
- O 3-level multi-user management with password
- O Alarms, operations and data Logging
- O Direct download on USB
- Adjustable temperature ramps

It offers a 4-inch touchscreen display with simultaneous viewing of all parameters, including real-time graphic monitoring of temperature and program status.

Equipped with visual and acoustic alarms system that can be easily silenced, the oven also includes advanced user management with three authorization levels, each password protected, to improve the operating parameters security.

Ventilation adjustable at 3 intensity levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.

A door switch facilitates safe loading and unloading of samples, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

The oven supports adjustable temperature ramps, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operation and data logs.

All information can be downloaded directly on a USB drive, ensuring advanced documentation and traceability.



Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluidexpansion maximum temperature controller and an integrated hole (Ø 5 mm) to insert external sensors, ensuring internal temperature control and certification. A versatile and safe solution, perfect for the most demanding applications

Stainless steel chamber with rounded corners, fully removable antitip supports and shelves for easy and thorough cleaning. Power supply 220± 10% V - 50/60 Hz.

Supplied with

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and a USB drive for data recording and transfer.

TCF SUPER MODELS

	Name	Volume (I)	Stability at 150 °C	Homogeneity at 150 (°C)	External dim. LxWxH(mm)	Weight (kg)	Power (W)	p/n
NEW	TCF 50 SUPER	50	± 0,3	± 2%	690 x 640 x 635	54	980	41200602
NEW	TCF 120 SUPER	120	± 0,3	± 2%	810 x 760 x 750	74	1900	41200612
NEW	TCF 200 SUPER	200	± 0,4	± 2%	945 x 825 x 870	103	2400	41200622
NEW	TCF 400 SUPER	400	± 0,5	± 2%	1285 x 820 x 1060	160	3200	41200632

TCF **PLUS** MODELS

	Name	Volume (I)	Stability at 150 °C	Homogeneity at 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
NEW	TCF 50 PLUS	50	± 0,3	± 2%	690 x 640 x 635	54	980	41200202
NEW	TCF 120 PLUS	120	± 0,3	± 2%	810 x 760 x 750	74	1900	41200212
NEW	TCF 200 PLUS	200	± 0,4	± 2%	945 x 825 x 870	103	2400	41200222
NEW	TCF 400 PLUS	400	± 0,5	± 2%	1285 x 820 x 1060	160	3200	41200232



NEW TCF Plus

- O Working range:: +10 °C RT ... +300 °C
- O Backlit LED display
- O 10 storable programs
- O Data Logging
- O Direct download on USB

The ArgoLab PLUS version oven offers a **black backlit LCD display** that allows simultaneous viewing of all main parameters, including actual and set temperature.

Equipped with a **visual and acoustic alarm** system that can be easily silenced, the oven also includes a **USB port for data download**

Ventilation adjustable at 3 intensity levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start. A door switch facilitates safe loading and unloading of samples, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

The data storage system is complete and supports direct **download to a USB drive**, ensuring simple and secure data management.

Compliant with Safety Class 3.1 (DIN 12880), the oven includes a fluid-expansion maximum temperature controller and an integrated hole (Ø 5 mm) to insert external sensors, ensuring internal temperature control and certification.

A versatile and safe solution, perfect for the most demanding applications.



Stainless steel chamber with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

Power supply 220±10% V - 50/60 Hz.

Supplied with:

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and USB drive for data recording and transfer

TCF ACCESSORIES (SUPER and PLUS)

Description	Picture	p/n
Steel wire shelf for TCF 50	(3)	41100102
Steel wire shelf for TCF 120	////////	41100112
Steel wire shelf for TCF 200	///////////////////////////////////////	41100122
Steel wire shelf for r TCF 400		41100132
Steel holed platform TCF 50		41100152
Steel holed platform TCF 120	== <i>¥////</i> /////	41100162
Steel holed platform TCF 200		41100172
Steel holed platform TCF 400		41100182
Ø 25 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110152
Ø 50 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110142
Wheels for TCF 200 and TCF 400. Set of 4 pieces		41101172
ArgoLab IQ-0Q manual		41119002





- O Working range: +5 °C RT ... +70 °C
- O 4" colour touchscreen display
- O Real-time graphic monitoring
- O 10 storable programs
- O 3-level multi-user management with password
- O Alarms, operations and data Logging
- O Direct download on USB
- Adjustable temperature ramps

The ArgoLab natural convection incubator SUPER version is equipped with a 4-inch touchscreen display that allows simultaneous viewing of all operating parameters, including real-time graphic monitoring of temperature and program status.

The visual and acoustic alarm system can be easily silenced, while advanced user management provides three password-protected authorization levels to ensure maximum security on operating

The instrument meets safety class 2 (DIN 12880).

The incubator supports adjustable temperature ramps, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operation and data logs. All information can be downloaded directly on a USB drive, ensuring advanced documentation and traceability.

For greater versatility, the incubator includes an integrated hole (Ø 5 mm) to insert external sensors, ensuring internal temperature control and certification.



The chamber is made of stainless steel with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

To observe the samples without heat loss, the ICN 16 and ICN 35 models are equipped with a large glass window on the door, while the remaining models include a double door (with an internal glass door).

Power supply: 220± 10% V - 50/60 Hz.

Supplied with:

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for higher models), calibration report at 37 °C performed with an Accredia-referable instrument and USB drive for data recording and transfer.

ICN SUPER MODELS

	Name	Volume (I)	Stability at 37 °C	Homogeneity at 37 °C	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
NEW	ICN 16 SUPER	16	± 0,3	± 0,4	530 x 450 x 370	23	85	41201302
NEW	ICN 35 SUPER	35	± 0,3	± 0,4	620 x 510 x 440	33	125	41201312
NEW	ICN 55 SUPER	55	± 0,3	± 0,5	660 x 600 x 500	42	250	41201322
NEW	ICN 120 SUPER	120	± 0,3	± 0,5	780 x 700 x 610	61	350	41201332
NEW	ICN 200 SUPER	200	± 0,3	± 0,5	875 x 760 x 755	77	600	41201342

ICN PLUS MODELS

	Name	Volume (I)	Stability at 37 °C	Homogeneity at 37 °C	External dim. LxWxH(mm)	Weight (kg)	Power (W)	p/n
NEW	ICN 16 PLUS	16	± 0,3	± 0,4	530 x 450 x 370	23	85	41201002
NEW	ICN 35 PLUS	35	± 0,3	± 0,4	620 x 510 x 440	33	125	41201012
NEW	ICN 55 PLUS	55	± 0,3	± 0,5	660 x 600 x 500	42	250	41201022
NEW	ICN 120 PLUS	120	± 0,3	± 0,5	780 x 700 x 610	61	350	41201032
NEW	ICN 200 PLUS	200	± 0,3	± 0,5	875 x 760 x 755	77	600	41201042



NEW ICN Plus

- O Working range: +5 °C RT... +70 °C
- O Backlit LED display
- O 10 storable programs
- O Data Logging
- O Direct download on USB



The ArgoLab PLUS version incubator offers a **black backlit LCD** display that allows simultaneous viewing of all main parameters, including actual and set temperature.

Equipped with a visual and acoustic alarm system that can be easily silenced, the incubator also includes a USB port for data download.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start.

A door switch facilitates safe loading and unloading of samples, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

The data storage system is complete and supports direct download to a USB drive, ensuring simple and secure data management.

Compliant with Safety Class 2 (DIN 12880), the incubator includes an integrated hole (Ø 5 mm) to insert external sensors, ensuring internal temperature control and certification.

Observation of samples without heat loss: the ICN 16 and ICN 35 models are equipped with a large glass window on the door to monitor samples without affecting the internal temperature. The remaining models are equipped with a double door (with an internal glass door) for the same purpose.

The chamber is made of stainless steel with rounded corners, and the anti-tip supports and shelves are fully removable for easy and thorough cleaning.

Power supply: 220±10% V - 50/60 Hz.

Supplied with:

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 150°C performed with an Accredia-referable instrument, and USB drive for data recording and transfer

ICN ACCESSORIES (SUPER and PLUS)

Description	Picture	p/n
Steel wire shelves for ICN 16		41101112
Steel wire shelves for ICN 35	<i>ff</i> ////////	41101122
Steel wire shelves for ICN 55	<i>////////</i>	41101132
Steel wire shelves for ICN 120	2//////////////////////////////////////	41101142
Steel wire shelves for ICN 200		41101152
Wheels for ICN 200. Kit of 4 pieces		41101172
ArgoLab IQ-0Q manual		41119002





- O Working range: +5 °C RT ... +80 °C
- O Sterilization program at 130 °C
- O 4" colour touchscreen display
- O Real-time graphic monitoring
- O 10 storable **programs**
- O 3-level multi-user management with password
- O Alarms, operations and data Logging
- O Direct download on USB
- O Adjustable temperature ramps

The ArgoLab forced air convection incubator SUPER version is equipped with a 4-inch touchscreen display that allows simultaneous viewing of all operating parameters, including real-time graphic monitoring of temperature and program status.

The visual and acoustic alarm system is easily silenced, while advanced user management provides three password-protected authorization levels to ensure maximum security on operating parameters.

Ventilation adjustable at 3 levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

Compliant with Safety Class 3.1(DIN 12880), the incubator includes a fluid-expansion maximum temperature controller and an integrated hole (\emptyset 5 mm) to insert external sensors, ensuring internal temperature control and certification.

A versatile and safe solution, perfect for the most demanding applications.



The incubator supports adjustable **temperature ramps**, ideal for managing complex heat cycles, and offers a complete archiving system that includes alarm, operations and data logs.

All information can be downloaded directly on a USB drive, ensuring documentation and advanced traceability.

The chamber is made of stainless steel with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

To observe the samples without heat loss, the models have a double door (with an internal glass door).

Power supply: 220±10% V - 50/60 Hz

Supplied with

steel wire shelves (2 shelves for models up to 50 liters,

3 shelves for higher models), calibration report at 37 °C performed with an Accredia-referable instrument and a USB drive for data recording and download.

ICF SUPER MODELS

	Name	(I)	at 37 °C	at 37 °C	LxWxH (mm)	(kg)	Power (W)	p/n
NEW	ICF 55 SUPER	57	± 0,1	± 0,3	690 x 620 x 650	56	350	41200902
NEW	ICF 120 SUPER	120	± 0,1	± 0,4	810 x 760 x 750	74	600	41200912
NEW	ICF 200 SUPER	200	± 0,2	± 0,4	945 x 825 x 870	103	700	41200922
NEW	ICF 400 SUPER	400	± 0,3	± 0,5	1285 x 820 x 1060	160	1500	41200932

ICE PLUS MODELS

	ICF PLUS MUI	DELS						
	Name	Volume (I)	Stability at 37 °C	Homogeneity at 37 °C	External dim. LxWxH(mm)	Weight (kg)	Power (W)	p/n
EW	ICF 55 PLUS	57	± 0,1	± 0,3	690 x 620 x 650	56	350	41200802
EW	ICF 120 PLUS	120	± 0,1	± 0,4	810 x 760 x 750	74	600	41200812
EW	ICF 200 PLUS	200	± 0,2	± 0,4	945 x 825 x 870	103	700	41200822
EW	ICF 400	400	± 0,3	± 0,5	1285 x 820 x 1060	160	1500	41200832

NE

NE



NEW ICF Plus

- O Working range: +5 °C RT... +80 °C
- O Sterilization program at 130 °C
- O Backlit LED display
- O 10 storable programs
- O Data recording
- O Direct download on USB

The ArgoLab PLUS version incubator is equipped with a black backlit LCD display that allows simultaneous viewing of all main parameters, including actual and set temperature.

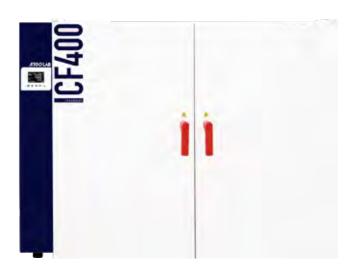
The visual and acoustic alarm system is easily silenced, and the incubator includes a USB port for data download.

Ventilation adjustable at 3 levels: High, Medium, Low.

The programmable digital timer allows cycles of up to 99 hours and 59 minutes, with options for continuous operation and delayed start

A door switch facilitates safe loading and unloading of samples, and the 'safe temperature' function automatically limits the maximum temperature to protect samples at each stage of the cycle.

Compliant with Safety Class 3.1 (DIN 12880), the incubator includes a fluid-expansion maximum temperature controller and an integrated hole (Ø 5 mm) to insert external sensors, ensuring internal temperature control and certification.



A versatile and safe solution, perfect for the most demanding applications.

The data storage system is complete and supports direct download on a USB drive for simple and secure data management.

To observe the samples without heat loss, the models have a double door (with an internal glass door).

The chamber is made of stainless steel with rounded corners, fully removable anti-tip supports and shelves for easy and thorough cleaning.

Power supply: 220± 10% V - 50/60 Hz.

Supplied with:

steel wire shelves (2 shelves for models up to 50 liters, 3 shelves for larger models), calibration report at 37 °C performed with an Accredia-referable instrument, and USB drive for data recording and download.

ICF ACCESSORIES (SUPER and PLUS)

Description		p/n
Steel wire shelves for ICF 55		41100102
Steel wire shelves for ICF 120	<i>[]</i>	41100112
Steel wire shelves for ICF 200		41100122
Steel wire shelves for ICF 400		41100132
Holed platform for ICF 55		41100152
Holed platform for ICF 120	- 4 /////	41100162
Holed platform for ICF 200		41100172
Holed platform for ICF 400		41100182
Ø 25 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110152
Ø 50 mm internal hole complete with end caps (only on walls highlighted in figure - specify position)		41110142
Wheels for ICF 200 and ICF 400. Kit of 4 pieces		41101172
ArgoLab IQ-0Q manual		41119002



NEW IC 150-R

- Working range: 0 ... +60 °C
- O Usable Volume 150 litres
- O Large 7" high-contrast touchscreen display
- O Real-time graphic display
- O Data, alarms and operations logging
- O Downloading data on USB in CSV/PDF
- O 3-level user management with safe access
- O 25 mm side through-hole

The ArgoLab IC 150-R refrigerated incubator is equipped with a steel external door with a large glass window and interior light, ideal to observe the samples without heat loss.

Thanks to the redesigned user interface and high-contrast 7-inch touchscreen display, the user can count on optimal view in all conditions and precise, intuitive control of all parameters.

The incubator supports data logging of up to 200,000 events, downloadable via USB drive in CSV or PDF format, ensuring easy analysis.

The display and download function includes a 'search' command for quick access to historical data, while an advanced logging and alarm/ operation history system allows to monitor and record critical events and operations.

Thanks to the graphic display directly on the screen, changes in temperature and other parameters can be monitored in real time, supported by the multi-step program, which allows up to 64 consecutive steps to be stored, ideal for complex processes.

For greater flexibility, the incubator allows the configuration of temperature ramps and offers the possibility to choose the unit of measurement between °C and °F.

Operational safety is guaranteed by Safety Class 3.1 (DIN 12880), which includes a fluid expansion maximum temperature controller. The incubator is also equipped with a lateral 25 mm passage hole to insert one or more external sensors, useful for monitoring and certifying the internal temperature.

User management is multi-level, with three configurable access levels (user, manager, admin), for safe customization of operating parameters.

Ctobility



The incubator offers a digital timer programmable from 1 minute up to 99 hours and 59 minutes, with the option for continuous operation and delayed start.

The 'safe temperature' function automatically limits the maximum temperature to protect samples during all working operations. The inner chamber is made of stainless steel with rounded corners, equipped with anti-tip shelves and fully removable supports for easy and thorough cleaning.

The power supply is $220 \pm 10\%$ V at 50 Hz.

Maight

Supplied with:

Three steel wire shelves, a calibration report at 25°C performed with an Accredia-referable instrument and a USB drive for data.

Dawer

n / n

NEW	IC 150-R
IAE AA	DI IIC

INGILIE	(I)	at 150 °C	at 150 (°C)	LxWxH (mm)	(kg)	(W)	μ/π
V IC 150-R	150	± 0,1	± 0,5	650 x 620 x 1350	100	1100	41201512

External dire

Hemegapaitu

ACCESSORIES IC 150-R

Values o

Description	p/n
Steel wire shelves for IC 150-R	41101562
Manual IQ-0Q	41119002



NEW IC 50-P PELTIER INCUBATOR

- O Working range: $0 \dots +60 \,^{\circ}\text{C}$ (* at least 20°C below room T)
- O Peltier technology
- O Usable Volume 50 litres
- O Large 7" high-contrast touchscreen display
- O Real-time graphic display
- O Data, alarms and operations logging
- O Downloading data on USB in CSV/PDF
- O 3-level user management with safe access



The refrigerated incubator with Peltier cell technology ArgoLab IC 50-P is equipped with a double door, with an internal glass door, ideal for observing samples without heat loss.

Thanks to the redesigned user interface and high-contrast 7-inch touchscreen display, the user can count on optimal view in all conditions and precise, intuitive control of all parameters.

The incubator supports data logging of up to 200,000 events, downloadable via USB drive in CSV or PDF format, ensuring easy analysis.

The display and download function include a 'search' command for quick access to historical data, while an advanced logging and alarm/operation history system allows

to monitor and record critical events and operations. Thanks to the **graphic** display directly on the screen, changes in temperature and other parameters can be monitored in real time, supported by the multi-step program, which allows up to 64 consecutive steps to be stored, ideal for complex processes.

For greater flexibility, the incubator allows the configuration of temperature ramps and offers the possibility to choose the unit of measurement between °C and °F.

Operational safety are guaranteed by Safety Class 3.1 (DIN 12880), which includes a fluid-expansion maximum temperature controller.

User management is multi-level, with **three configurable access levels (user, manager, admin)**, for safe customization of operating parameters.

The incubator is equipped with a **door switch**, which facilitates the loading and unloading of samples.

The 'safe temperature' function automatically limits the maximum temperature to protect samples during all working operations. The inner chamber is made of stainless steel with rounded corners, equipped with two anti-tip shelves and fully removable supports for easy and thorough cleaning.

The power supply is 220± 10 % V at 50 Hz.

Supplied with:

two steel wire shelves, calibration report at 25°C performed with an Accredia-referable instrument and a USB stick for recording and data download.

١	Name	Volume (I)	Stability at 150 °C	Homogeneity at 150 (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
NEW I	C 50-P	50	± 0,1	± 0,5	550 x 600 x 700	58	500	41202402

ACCESSORIES IC 50-P

Description	p/n
Steel wire shelves for IC 50-P	41101572
Manual IQ-0Q	41119002



NEW CH 150 CLIMATIC CHAMBERS

- O Working range RH: +45... +95 % RH
- O Working range with humidity: +10 ... 70 °C
- O Working range without humidity: 0 ... +85 °C
- O 7" high-contrast touchscreen display
- O Real-time graphic display
- O Data, alarms and operations logging
- O Data download on USB in CSV/PDF
- O 5 access-level user management

The ArgoLab climatic chamber is equipped with a large, high-contrast **7-inch touchscreen display**, which ensures a modern and always clearly visible interface. The new, completely redesigned user interface makes operation intuitive and immediate, allowing quick access to all operating parameters.

The extended operating range of 45% RH to 95% RH allows a wide range of application requirements to be met. Parameters monitoring is made more effective by the real-time graphic display directly on the screen.

Data management is simple and advanced: the data logging system can store up to 200,000 events, with optional

download via USB port in CSV or PDF format for in-depth analysis. The smart data-downloading function with 'search' command allows targeted access to stored data, while the new program configuration includes the option to create multi-step sequences and temperature/humidity ramps, optimal for advanced applications.

Multi-level user management includes 5 **authorization levels**, ensuring safe and customized control for each operator.

The interior of the chamber is made of stainless steel with rounded corners, ensuring easy cleaning and maintaining high resistance to wear.

The **optimized ventilation system** ensures an even distribution of temperature and humidity, providing stability and accuracy in every part of the chamber.

The external steel door, equipped with a large glass window and manually activated LED light, allows the samples to be monitored without altering the internal environment.



The chamber meets **Safety Class 3.1(DIN 12880)** thanks to a fluid-expansion maximum temperature controller, ensuring maximum protection of samples.

The chamber is equipped with a compact external water tank that is easily accessible through an ergonomic screw cap. In addition, a lateral 25 mm hole with a silicone plug has been added to facilitate the passage of probes or cables, increasing the versatility of the instrument.

The power supply is $220 \pm 10\%$ V at 50 Hz.

Supplied with:

three steel wire shelves, feed tray.

Climatic chambers are delivered after being thoroughly tested.

	Name	Volume (I)	External dimensions LxWxH(mm)	Weight (kg)	p/n
V	CH 150	150	690 x 790 x 1520	145	41201412

ACCESSORIES CH 150

Description	p/n
Steel wire shelves for CH 150	41101462
Manual IQ-0Q	41119002

NEW



NEW CH 250 CLIMATIC CHAMBERS

- O Working range RH: +45... +95 % RH
- O Working range with humidity: +10 ... 70 °C
- O Working range without humidity: 0 ... +85 °C
- O 7" high-contrast touchscreen display
- O Real-time graphic display
- O Data, alarms and operations logging
- O Data download on USB in CSV/PDF
- 5 access-level user management



Menu setup





The ArgoLab climatic chamber is equipped with a large, high-contrast 7-inch touchscreen display, which ensures a modern and always clearly visible interface. The new, completely redesigned user interface makes operation intuitive and immediate, allowing quick access to all operating parameters.

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The chamber is equipped with a compact external water tank that is easily accessible through an ergonomic screw cap. In addition, a lateral 25 mm hole with a silicone plug has been added to facilitate the passage of probes or cables, increasing the versatility of the instrument.

The power supply is $220 \pm 10\%$ V at 50 Hz.

Supplied with:

three steel wire shelves, feed tray.

Climatic chambers are delivered after being thoroughly tested.

Name	Volume (I)	External dimensions LxWxH(mm)	Weight (kg)	p/n
NEW CH 250	250	740 x 885 x 1680	185	41201422

ACCESSORIES CH 250

Description	p/n
Steel wire shelves for CH 250	41101472
Manual IQ-0Q	41119002



NEW CB SERIES 5 CIRCULATING WATERBATH

 \circ Working range: -30 / -20 / -10 ... +100 $^{\circ}$ C

O Usable volume: 5 litres

O PT100 Probe for external circuit temperature control

Backlit LED display

Argolab circulating waterbath. Simultaneous display of set temperature, actual temperature and all other operating parameters.

Visual and acoustic alarms that can be silenced by the operator. Digital timer with programming range 1 min - 99 h 59 min. and continuous operation.

Safe temperature function: working temperature limitation for sample protection.

Safety Class 3 (DIN 12880).

Simultaneous circulation of the fluid inside and outside the tank for better conditions of stability and thermal inertia.

Automatic reading of the external circuit temperature by connecting the supplied PT100 probe.

Functional tap to exclude external circulation for an easy cleaning and maintenance.

Safety system for lack of liquid inside. Stainless steel inner tank with lid, easily accessible.

Power supply: 220± 10% V - 50 Hz.



Supplied with:

PT100 probe for external temperature control. Set of two 2-meter hoses with insulating material (working range -40...+60 °C), metal clamps, tap and hose connector.

MODELS

	Name	Volume (I)	Working range (°C)	Dimensions LxWxH(mm)	Weight (kg)	Power (W)	p/n
NEW	CB 5-10	5	-10 +100	290 x 570 x 710	34	2300	41202202
NEW	CB 5-20	5	-20 +100	380 x 670 x 840	54	2600	41202212
NEW	CB 5-30	5	-30 +100	380 x 670 x 840	54	2600	41202222

ACCESSORIES FOR CB

	Description	p/n
HOSES	Set of two 2 meters hoses with insulating material (working range -40+60 °C) complete with metal clamps for attachment to hose connector	41102302
WHEELS	Kit of 4 swivel wheels, two of which can be braked	41102312
THERMAL FLUID	Ready-to-use pre-mixed thermal fluid, working range -30÷+80 °C. 5 litres barrel.	41102322
PT 56 TFE	PT100 external temperature probe with Teflon cable	51000252

NEW WB SERIES

- \circ Working range: +5°C RT ... +85 / +100 °C
- O Usable volume 5 / 12 / 22 / 40 litres
- O Backlit LED display



Waterbath Argolab.

Safety Class 2 (DIN 12880).

Visual and acoustic alarms that can be silenced by the operator. Digital timer with programming range 1 min - 99 h 59 min. and continuous operation.

Delayed start function of the heating cycle. Safe temperature function: working temperature limitation for sample protection. High-quality stainless steel inner chamber and holed bottom plate (removable). Side handle knob included (WB 5 - WB 12).

The WB 22 Pump and WB 40 Pump models have a recirculation pump for perfect uniform temperature distribution. Power supply: $220\pm10\%$ V - 50/60 Hz.

Supplied with: Stainless steel lid with 5 mm hole for external sensor passage, holed bottom plate, pipe for the drainage of the tank and quick-acting valve for periodic liquid replacement.

	Name	Volume (I)	Working range (°C)	Stability at 37 °C	Tank dimensions LxWxH(mm)	Disposition rack	p/n
NEW	WB 5	5	+5 RT +100 * *100 °C reachable with thermal fluid	± 0,1	300 x 155 x 150	[1MODULE]	41201592
NEW	WB 12	12	+5 RT +100 * * 100 °C reachable with thermal fluid	± 0,1	300 x 240 x 200	1MODULE	41201602
NEW	WB 22	22	+5 RT +100 * *100 °C reachable with thermal fluid	± 0,1	500 x 295 x 200	MODULE MODULE	41201712
NEW	WB 22 PUMP	22	+5 RT +85	± 0,1	500 x 295 x 200	IOW I	41201612
NEW	WB 40 PUMP	40	+5 RT +85	± 0,2	645 x 395 x 200	IMODULE	41201622

Modules p/n 1 41101802 RACK 1 for pipes Ø13mm / 20 places RACK 2 for pipes Ø18mm / 20 places 1 41101812 1 41101822 RACK 3 for pipes Ø31mm / 5 places 3 RACK 4 for pipes Ø56mm / 8 places (biberon) 41101842 3 RACK 5 for blood sachets / 5 places 41101852 **BECKER SUPPORT FOR WB 12** / 4 places 41101952 **BECKER SUPPORT FOR WB 22 / 8 places** 41101962



ACCESSORIES FOR WB

RACK 1 Ø13mm



RACK 2



RACK 3



RACK 4



RACK5 for blood sachets



BECKER

Thermostatation



NEW SB 35 SHAKING BATH

 \circ Working range : +5°C RT ... +100 °C

Tank capacity: 35 litresBacklit LED display



Horizontal shaking bath (Dubnoff) Argolab.

Visual and acoustic alarms that can be muted by the operator.

Digital timer with programming range 1 min - 99 h 59 min. and continuous operation.

Delayed start function of the heating cycle.

Safe temperature function: working temperature limitation for sample protection.

Safety class 2 (DIN 12880).

Power supply: 230V/50Hz, weight: 28kg.

Supplied with:

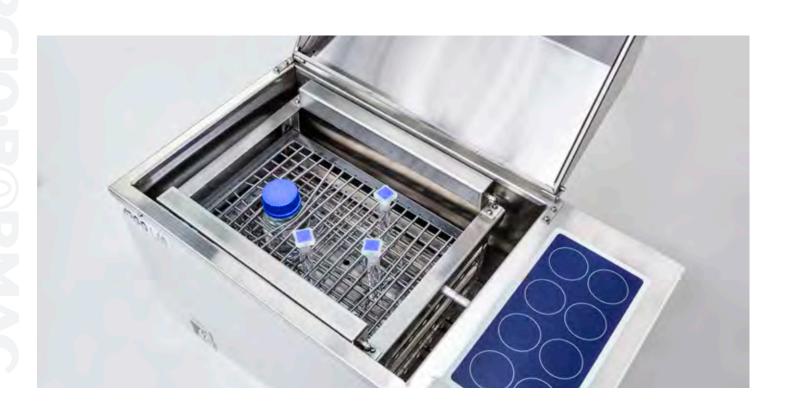
Stainless steel LID with a 5 mm hole for external sensor passage;

Universal basket with stainless steel spring support;

pipe for the drainage of the tank and quick-acting valve for periodic liquid replacement..

MODEL

Name	Volume (I)	Working range (°C)	Stability at 37 (°C)	Homogeneity at 37 (°C)	Basket dimensions LxWxH(mm)	p/n
y SB 35	35	+5 RT +100	±0,5	±1	320 x 200 x 115	41201732





DRY BATH

- \circ Working range : +25 ... +120 $^{\circ}$ C
- O Accurate and uniform temperature control
- O Backlit LED display
- O Calibration on 1 point

ArgoLab dry bath with 1-point calibration function. Settable temperature range between +25 and +120°C. Calibration on 1 point by a simple operation. Accurate and uniform temperature control (\pm 0.5°C @ 37°C). "Hot" function for user safety Overheating function (140°C). Several types of hostable blocks compatible with most common Ø cuvettes (9 types).

LED display with "real time" temperature display and remaining heating time. Supplied as standard with lid for better heat preservation and safety.



The Argolab HB 120-C dry bath can accommodate up to 10 different test tube blocks, differing in number and volume. Each block has a central thread for extraction (via dedicated rod) and at least 2 holes for temperature control (hole Ø 3 mm). Each block is supplied without an extraction rod.

Supplied with

Power cable
Plastic cover
Extracting rod heating block
BLOCK NOT INCLUDED





Name	Working range (°C)	Accuracy a 37 (°C)	p/n
HB 120-C	+25 +120	±0,5	22010013



HEATING BLOCKS

The Argolab HB 120-C dry bath can accommodate up to 10 different test tube blocks, differing in number and volume. Each block has a central thread for extraction (via dedicated rod) and at least 2 holes for temperature control (hole Ø 3 mm). Blocks are supplied without the extraction rod.

Name	Description	p/n
Microplates		22010203
8 places x 50 ml	-3888	22010193
28 places x 5/15 ml		22010173
45 places x 5 ml		22010183
40 places x 0,5 ml		22010133
40 places x 1,5 ml		22010143
40 places x 2,0 ml		22010153
54 places x 0,2 ml		22010123
18 places x 0,2 / 0,5 / 1,5 / 2 [ml]		22010163
BATHTUB + SPHERES KIT		22010103
BATHTUB		22010113
ALUMINUM SPHERES 1KG		22010213

17GO LAB

DU - DIGITAL ULTRASONIC BATHS

- O Working range: +5°C RT ... +60 °C
- O Backlit LED display
- O Ultrasonic frequency 40/28 KHz.
- O Timer from 1 to 99 minutes.
- O Sweep, Pulse and Degas functions



Argolab digital ultrasonic bath with integrated Sweep technology and equipped with Pulse and Degas functions. Digital illuminated displays showing current and set temperature, timer, ultrasonic power level and operating frequency. Separate control of ultrasound, heating and Pulse and Degas functions.

Temperature control up to 60°C.

Timer can be set from 1 to 99 minutes.

On models DU-100S / DU-220S / DU-450S there is a tap for emptying the tank.

Supplied as standard: stainless steel basket and lid.





MODEL

Name	Volume (I)	Heating power (W)	Ultrasonic power (W)	Tank dimensions LxWxH (mm)	Weight (kg)	p/n
DU-06	0,6	Not heating	50	150 x 85 x65	1,35	41300323
DU-32S	3,2	100	120	240 x 135 x100	3,80	41300333
DU-45S	4,5	200	180	300 x 150 x 100	4,40	41300343
DU-65S	6,5	200	180	300 x 150 x150	5,40	41300353
DU-100S	10	500	240	300 x 240 x150	8,20	41300363
DU-220S	22	500	480	500 x 300 x 150	13,20	41300373
DU-450S	45	1000	720	500 x 300 x 300	17	41300383

NEW CE-6200 A

No-heating digital ultrasonic bath with volume: 1,4 L. Particularly **recommended for jewellers.**

Digital display, touch screen panel, Adjustable timer 90-180-280-380-480 Sec. Ultrasonic frequency 42 KHz.

Supplied with: basket and lid.



Name	Volume (I)	Ultrasonic power (W)	Tank dimensions LxWxH (mm)	Weight (Kg)	p/n
CE-6200 A	1,4	70	175 x 135 x 70	1,55	41300313



AU - **ANALOGIC** ULTRASONIC BATHS

○ Working range: +5°C RT... +80°C

O Ultrasonic frequency: 40 KHz.

O Timer from 1 to 30 minutes, or in continuous...

Analogic ultrasonic bath. Temperature adjustment up to 80°C. Adjustable timer from 1 to 30 minutes and limitless. Ultrasonic frequency 40 KHz.

Supplied with: basket and stainless steel lid.

On AU 220 and AU 450 models, there is a tap for emptying the tank.



MODELS

Name	Volume (I)	Heating power (W)	Ultrasonic power (W)	Tank dimensions LxWxH (mm)	Weight (kg)	p/n
AU-32	3,2	100	120	240 x 135 x100	3,80	41300403
AU-65	6,5	200	180	300 x 150 x150	5,40	41300413
AU-220	22	500	480	500 x 300 x 150	13,20	41300433
AU-450	45	1000	750	500 x 300 x 300	17,00	41300423

ACCESSORIES

Name	Description		p/n
CLEANER	Universal cleaning solution. Bottle of 30 ml		41300253
CLEANER	Universal cleaning solution. Bottle of 500 ml		41300263
BECKER SUPPORT	For DU-45 DU-65 e AU-65 , with 2 holes	00	41300513
BECKER SUPPORT	For DU-100 , with 4 holes	80	41300533
SS-200 SIEVE HOLDER	Sieve holder. Compatible with AU-450 model only. Holder for no. 5 sieves of 80 mm or no. 6 sieves of 60 mm thick.		41300203

ARGO FREDDO















RESOLUTION 0,1°C



MIN-MAX ALARM



HOMOGENEITY EN 60068-3



VENTILATION (FR series)



DEFROST



OPEN DOOR



KEY LOCK



PLASTIFIED STEEL SHELVES



REMOTE ALARM CONTACT



LED LIGHTS



REVERSIBLE DOOR



ECO FRIENDLY GAS



THROUGH-HOLE 10 mm



WHEELS (260 L)



CALIBRATION REPORT





FR REFRIGERATORS

O Temperature range: +2 ... +8 °C

O Internal volume: 110 - 260 L

O LED display

Professional laboratory refrigerators with digital display and electronic control, automatic defrosting, temperature and open-door alarms. Smart and easy-to-use refrigerated instruments; the internal parameters can be adjusted according to the most restrictive needs.

The internal dynamic ventilation system ensures the **best conditions** to store even the most sensitive materials, in accordance with **EN 60068-3**.

Highly efficient compressors use environmentally friendly, CFC-free and HCFC-free refrigerant gases in compliance with European environmental regulations, such as F-Gas Regulation (EU) 517/2014.

Three alarm levels: audible, visual and remote with 0 potential contact.

The small-sized models (110 litres) are suitable for laboratories with limited spaces and can be placed under the counter.

All models are equipped with an internal Full-LED light and reversible door, blind or glass (G versions), with key lock.





Microprocessor controller with simple and intuitive interface; tenth of degree resolution for accurate control using NTC-type probes.

Measurement unit: °C or °F.

260 L models are supplied with wheels (frontally lockable).

Name	Volume (liters)	Temperature range (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
FR 110	110	+2 +8 °C	600 x 560 x 805	50	120	41500012
FR 110 G	110	+2 +8 °C	600 x 560 x 805	50	120	41500022
FR 260	260	+2 +8 °C	600 x 560 x 1525	75	160	41500032
FR 260 G	260	+2 +8 °C	600 x 560 x 1525	75	160	41500042



NEW FRZ 300 COMBINED FRIDGE-FREEZER

- O Working range: +2 ... +8 °C (refrigerator) / −25 ... −10 °C (freezer)
- O Usablee volume 300 L: 200 (refrigerator) + 100 (freezer)
- O Dual LED display

The combined refrigerator-freezer FRZ 300 is the ideal solution for laboratories requiring a reliable and versatile combined instrument designed to provide maximum control for the storage of sensitive materials.

With a **total capacity of 300 litres**, divided into 200 litres for the refrigerator and 100 litres for the freezer, the FRZ 300 offers ample space and storage flexibility for different laboratory needs

The digital display and electronic control, with a resolution of 0.1°C, allows to precisely adjust the temperature, ensuring accurate control of indoor conditions.

The advanced customizable alarm system with audible and visual alerts warns about critical changes, while the 0 potential contact offers remote monitoring to be safer.

The highly efficient compressors use environmentally friendly, CFC-free and HCFC-free refrigerant gases in compliance with European environmental regulations, such as F-Gas Regulation (EU) 517/2014.

Calibration parameters are easily accessible through a dedicated submenu, making the FRZ 300 easy to handle even in maintenance operations.

The design is developed to guarantee **comfort and accessibility**: the internal LED lighting (refrigeration compartment) ensures a clear view of the samples, while the reversible door opening allows to easily place it within the laboratory.

The combined fridge-freezer is also available with a glass door (for the refrigerator side), to monitor the samples without opening the door.

The swiveling and braking wheels allow to position the instrument, even in limited spaces.

The FRZ 300 is equipped with a 10 mm through-hole on both refrigerator and freezer chambers, and resistant plastic-coated steel shelves designed for heavy use and easy cleaning.

The open-door alarm function, with a user-adjustable delay, provides additional protection against heat loss.

The combined fridge-freezer FRZ 300 is the ideal choice for any laboratory requiring a high quality, reliable and safe combined instrument with specific focus on sample protection and environmental sustainability.

The combined fridge-freezer FRZ 300 is supplied with a double calibration report at $+5.0^{\circ}$ C and -20.0° C performed with an ACCREDIA-referable instrument.





Versione G



Dual display

NEW

NEW

Name	Volume (liters)	Temperature range (°C)	External dim. LxWxH (mm)	Weight (kg)	Power (W)	p/n
y FRZ 300	300	-2510 °C +2 +8 °C	600 x 6100 x 1770	75	340	41500102
y FRZ 300 G	300	-2510 °C +2 +8 °C	600 x 6100 x 1770	75	340	41500112



NEW FZ 300-P FREEZER CHEST

- O Working range: -25 ... -10 °C
- O Usable volume 300 L
- O Dual LED display

The FZ 300-P freezer chest is the ideal choice for laboratories requiring a reliable and versatile instrument designed to provide maximum control for the storage of sensitive materials.

With a capacity of 300 litres, the FZ 300-P offers ample space and efficient organization, ideal for different storage needs in the laboratory.

The digital display and electronic control via NTC probes ensure precise temperature control, with resolution at 0.1°C, offering accurate control of indoor conditions.

The advanced customized alarm system with audible and visual alarms warns about critical changes from the set temperature, ensuring the safety of the samples.

The highly efficient compressors use eco-friendly, CFC-free and HCFC-free refrigerant gases in compliance with European environmental regulations, such as F-Gas Regulation (EU) 517/2014.

Calibration parameters are easily accessible through a dedicated submenu, making the FZ 300-P easy to handle even in maintenance operations.

The design of the FZ 300-P is developed to guarantee comfort and accessibility: the lockable handle ensures the protection of samples, while the practical internal drain valve facilitates the handling and maintenance of the instrument.



The swiveling and braking wheels allow to position the instrument, even in limited spaces. The instrument includes two plastic-coated steel drawers, designed for heavy use and easy cleaning.

FZ 300-P is equipped with a 10 mm through-hole for a even more versatile use.

The FZ 300-P freezer is an ideal choice for any laboratory that requires a high-quality, safe and reliable instrument with specific focus on sample protection and environmental sustainability.

The FZ 300-P freezer is supplied with a calibration report at -20.0°C, performed with an ACCREDIA- referable instrument.







Key lock

Name	Volume (litres)	Working range (°C)	External dimensions LxWxH(mm)	Weight (kg)	Power (w)	p/n
NEW FZ 300-P	300	-2510 °C	1280 x 770 x 890	69	300	41500302



FZ FREEZER

○ Working range: -25 ... -10 °C○ Usable volume: 110 - 260 L

O LED display

Professional laboratory freezer with digital display and electronic control, defrost function, temperature and open-door alarms.

Smart refrigerated instruments, the internal parameters can be adjusted according to even the most restrictive needs.

Highly efficient compressors contain "eco-friendly" gases CFC-free and HCFC-free, in accordance with Directive 2014/68/EU.

Three alarm levels: acoustic, visual and remote with 0 potential contact.

Smaller models (110 litres) are suitable for environments with reduced space and can be placed under the counter.

All models are equipped with an internal Full-LED light and reversible door, with key lock.

260 L models are supplied with wheels. (Front wheels are lockable).





CALIBRATION REPORT

All ARGO Freddo FR and FZ models come with calibration report included in the price, performed with an Accredia-certified sample instrument.

Reference temperatures:

o+5 °C FR SERIES

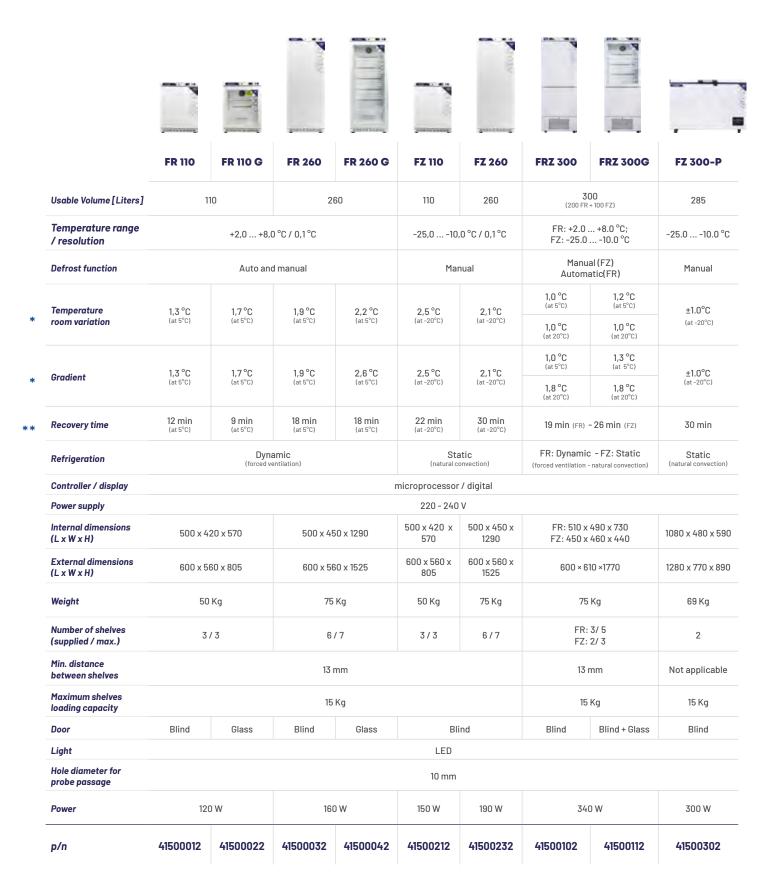
o - 20 °C FZ SERIES

Name	Volume (liters)	Temperature range (°C)	External dim. LxWxH(mm)	Weight (kg)	Power (W)	p/n
FZ 110	110	-2510 °C	600 x 560 x 805	50	150	41500212
FZ 260	260	-2510 °C	600 x 560 x 1525	75	190	41500232

ACCESSORIES	p/n
Standard shelf compatible with all models	41500702
Bottom shelf compatible with all models	41500712
Overlay kit for 110It	41500722



DATA SHEET



- * In compliance with the directive EN 60068-3
- ** In compliance with the technical directive DIN 12880

THERMOMETERS













DATA SHEET

Sensor	Measuring range	Max tolerance	Class
THERMOCOUPLE K	-60+1200 °C	±1,5 °C or 0,4% T*	1
THERMOCOUPLE T	-40+350 °C	±0,5 °C or 0,4% T*	1
THERMISTOR NTC	+25+85 °C -40+125 °C	±0,5 °C ±1 °C	-
PT 100	-100 °C +0 °C +100 °C +200 °C	±0,35 °C ±0,15 °C ±0,35 °C ±0,55 °C	Class A
PT 100	-100 °C +0 °C +100 °C +200 °C	±0,16 °C ±0,06 °C ±0,16 °C ±0,26 °C	Class 1/5 DIN

T*=Measured temperature. Take the worst condition.

ASTROPHY TO SERVICE OF THE PARTY OF THE PART

TEMP 74

- O 4 PT100 inputs
- O Resolution 0,01°C
- O Measuring range: -200,0 ... +999,9 °C
- O 4" color and high-definition display
- O Data logger up to 190.000 data with date and time
- O Three saving modes

GLP portable thermometer, with 4 channels for PT100 probes. Innovative high-resolution color display, excellent data display in all light conditions.

Possibility to select Light or Dark Theme to meet every need.

"Stop-reading" functions, recording of Min and Max values.

Protected calibration on 1 point for each channel independently, with indication of correction made.

"Align all" function to align all channels to the reference measurement.

Ability to enter an ID for each channel. Alarms function: enable a minimum threshold and a maximum threshold.

If the temperature trespasses you will be alerted immediately by an audible and visual signal.4-digit numeric password for data protection and calibrations.

Manual, automatic and programmed data logger, up to 190,000 records with date and time. DataLink+ software can be downloaded free of charge from www.xsinstruments.com.

Led and self-diagnostic messages indicate measurement status to the operator.

Powered by battery, PC, mains power supply. Auto power off.









DataLink+ software

Supplied with:

Carrying case, USB power supply, USB cable for connection to PC, batteries and operating instructions.

Name	Measuring range	Resolution	Accuracy T	p/n
TEMP 74 WITHOUT PROBE	000 000 00	0,1°C (-99,9 +199,9°C)	±0,2°C(-99,9+99,9°C)	50111212
TEMP 74 + 4 PT56 TFE	-200 +999 °C	1°C in the rest of the scale	±2 °C in the rest of the scale	50111252



TEMP 70 Vio PT100

- O Resolution 0,01°C
- O Measuring range -200,0...+999,9 °C
- O Dual channel PT100
- O High definition backlit coloured LCD Display
- O Data logger up to 1000 data
- O Certifiable

GLP portable thermometer, with double channel for PT 100 probes. Innovative high resolution color display, excellent readability in all light conditions.

"Hold" functions and recording of Min and Max values.

Protected calibration on 1 point with indication of the correction made.

Manual and automatic data logger, up to 1,000 records with date and time.

Data-Link free software downloadable on the website www.xsinstruments.com.

Guided procedures on the display for a simple and intuitive use.

LED and self-diagnosis messages indicate the status of the measurement to the operator. Powered by battery, PC, or USB power supply. Auto shutdown.



Transport case, USB power supply, USB cable for PC connection, batteries and user manual.





Model	Measuring range	Resolution	T Accuracy	p/n	
TEMP 70 Vio PT100	-200,0 +999,9 °C	0,01°C(-99,99+99,99°C)	±0,03°C(-99,99+99,99°C)	F0111000	
WITHOUT PROBE	-200,0 +999,9 C	0,1 °C in the rest of the scale $\pm 0,1$ °C in the rest of the scale		50111082	
SUPPORT	Magnetic holder for Vio	series portables		50110252	

TEMP 7 Vio PT100

- O Resolution 0,1°C
- O Measuring range: -200 ... +999°C
- O High definition backlit coloured LCD Display
- O Certifiable

Portable thermometer, for PT100 probes, with backlit color display.

Recording of Min and Max values, measure stability indicator.

Protected calibration on 1 point with indication of the correction made.

Hold function and auto-off after 20 minutes (can be disabled).

Guided procedures on the display for a simple and intuitive use.

LED and self-diagnosis messages indicate the status of the measurement to the operator.

Supplied with:

Transport case, batteries and user manual.





Model	Measuring range	Resolution	T Accuracy	p/n	
TEMP 7 VIO PT100	-200 +999 °C	0,1°C(-99,9+199,9°C)	±0,2 °C (-99,9 +99,9 °C)	F0111010	
WITHOUT PROBE	-200 +999 C	1°C in the rest of the scale	$\pm 2^{\circ}\mathrm{C}$ in the rest of the scale	50111012	
SUPPORT	Magnetic holder for Vio s	50110252			

TEMP 7 Vio NTC

- O Resolution 0,1°C
- O Measuring range: -50,0 ... +150,0 °C
- O High definition backlit coloured LCD Display

Portable thermometer, for NTC 30K Ω probes, with backlit color display. Recording of Min and Max values, measure stability indicator. Protected calibration on 1 point with indication of the correction made. Hold function and auto-off after 20 minutes (can be disabled). Guided procedures on the display for a simple and intuitive use. LED and self-diagnosis messages indicate the status of the measurement to the

Certifiable range 0 ... 150 °C



operator.

Transport case, batteries and user manual.





Models	p/n		
TEMP 7 Vio NTC WITHOUT PROBE	Portable thermometer	50111052	
TEMP 7 Vio NTC WITH PROBE FOR AIR AND LIQUID	Portable thermometer with NT7L probe for air and liquid	50111062	
TEMP 7 Vio NTC WITH PENETRATION PROBE	Portable thermometer with NT7P probe with penetration tip	50111092	
SUPPORT	Magnetic holder for Vio series portables	50110252	

NTC PROBES



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certification range °C	t ₉₀ min	p/n
NT7L LIQUIDS AND AIR	200 mm	Ø= 3 mm		- 50 +150	0 +150	3	50011142
NT7P PENETRATION	150 mm	Ø= 4 mm		- 50 +150	0+150	3	50011122



TEMP 7 Vio K/T

- O Resolution 0,1°C
- O Measuring range:-250,0...+1.350 °C
- O Certifiable
- O High definition backlit coloured LCD Display

Portable thermometer, for thermocouple K/T probes, with backlit color display.

Recording of Min and Max values, measure stability indicator.

Protected calibration on 1 point with indication of the correction made.

Hold function and auto-off after 20 minutes (can be disabled).

Guided procedures on the display for a simple and intuitive use.

LED and self-diagnosis messages indicate the status of the measurement to the operator.



Supplied with:

Transport case, batteries and user manual.

Model	Measuring range	Resolution	T Accuracy	p/n
TEMP 7 Vio K/T WITHOUT PROBE	K = -200,0 +1.350 °C T= -250,0 +400 °C	0,1°C (-99,9+199,9°C) 1°C in the rest of the scale	±0,1 % / ±0,4 °C reading > -150 °C ±0,25 % / ±1 °C reading < -150 °C	50111032
SUPPORT	Magnetic holder for Vio s	eries portables		50110252





XS Portable thermometers brochures are available on our website www.ysinstruments.com



PT100 PROBES

PROBES WITH HANDLE



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certification range °C	t ₉₀ min	Precision class	p/n
PT56 L LIQUID AND AIR	200 mm	Ø= 3 mm		-50 +400	-50 + 250	2	А	51000202
PT56 C CONTACT	200 mm	Ø= 5 mm		-50 +400	0 +250	3	А	51000212
PT56 P PENETRATION	150 mm	Ø= 4 mm		-50 +400	-50 + 250	2	Д	51000222
PT56 A	200 mm	Ø= 4 mm	<u>O</u>	-50 +250	-50 +150	2	Д	51000232
PT56 L 1/5 DIN	200 mm	Ø= 3 mm		-50 +400	-50 + 300	2	1/5 DIN	51000242
PT56/500 LIQUIDS AND AIR	500 mm	Ø= 6 mm		-50 +400	-50 + 300	5	А	51000262
PT56 /1000 LIQUIDS AND AIR	1000 mm	Ø= 6 mm		-50 +400	-50 +300	5	А	51000272

PROBES WITHOUT HANDLE- PERFECT FOR OVEN AND INCUBATORS



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certification range °C	t ₉₀ min	Precision class	p/n
PT56 TFE LIQUIDS AND AIR	100 mm	Ø= 4 mm		-200 +300 cable included	-200 +200	3	А	51000252
PT56 TFE 1/5 DIN LIQUIDS AND AIR	100 mm	Ø= 4 mm		-200+300 cable included	-200 +200	3	1/5 DIN	51000292



TERMOCOUPLE PROBES K

PROBES WITH HANDLE



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certification range °C	t ₉₀ min	Precision class	p/n
3K 220 LIQUIDS AND AIR	200 mm	Ø= 2 mm		-60 +600	0+400	2	1	51000752
3K 320	200 mm	Ø= 3 mm		-60 +800	0 +550	3	1	51000762
3K 350	500 mm	Ø= 3 mm		- 60 +800	0+800	2	1	51000772
3K 6100	1000 mm FOLDING	Ø= 6 mm		-60 +1100	0 +1100	4	1	51000782
3K 6120	1200 mm FOLDING	Ø= 6 mm		-60 +1100	0 +1100	6	1	51000822
3K 650	500 mm FOLDING	Ø= 6 mm		-60 +1100	0 +1100	7	1	51000792
3K 415 P PENETRATION	150 mm	Ø= 4 mm		-50 +600	0 +550	2	1	51000832
3K 520 C CONTACT	200 mm	Ø= 5 mm		-60 +600	0 +250	2	1	51000802

PROBES WITHOUT HANDLE - PERFECT FOR TUBES AND HARD PLACES TO REACH



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certification range °C	t ₉₀ min	Precision class	p/n
3K 1200 MANIPULABLE WIRE	2000 mm	Ø= 2 mm		-60 +400	0+300	1	1	51000812





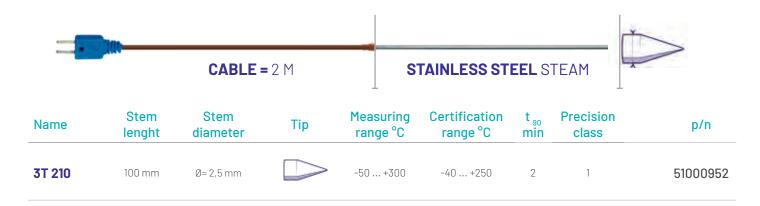
TERMOCOUPLE PROBES T

PROBES WITH HANDLE SUGGESTED FOR FOOD AND PHARMACEUTICAL INDUSTRY



Name	Stem lenght	Stem diameter	Tip	Measuring range °C	Certification range °C	t ₉₀ min	Precision class	p/n
3T 320 LIQUIDS AND AIR	200 mm	Ø= 3 mm		-50 +350	0 +300	3	1	51000902
3T 415 PENETRATION	150 mm	Ø= 4 mm		-50 +350	0 +300	2	1	51000912
3T 215 PENETRATION	150 mm	Ø= 2 mm		-50 +350	0 +300	1	1	51000942
3T 520 C CONTACT	200 mm	Ø= 5 mm		-50 +350	0 +250	2	1	51000922
3T 420 A AIR	200 mm	Ø= 4 mm	<u>O</u>	-50 +250	0 +200	2	1	51000932

PROBES WITHOUT HANDLE - PERFECT FOR OVEN AND INCUBATORS





MINI 1 WAY

O Single Trip Data logger - 1 trip

O Working range: -40...+80 °C

1-channel data logger with internal temperature sensor and IP67 protection. START button to turn it on. Marking of an event on the logger via Start button.

1 WAY: 45,000 records (Interval 5 sec...24 hours), 1 WAY LCD: 20,000 records. Internal battery (life 1 year).

Working range: -40...+80 °C.

Resolution 0,01°C.

Temperature accuracy $\pm 0.3^{\circ}$ C (-10...+80°C), $\pm 0.5^{\circ}$ C (-40...-10°C). Humidity accuracy $\pm 3^{\circ}$ RH (+15...+25°C), $\pm 5^{\circ}$ C (sewhere.





Name	Description	Qty	p/n
MINI 1 WAY PREPROGRAMMED	Preprogrammed with alarm thresholds (LL = 0 $^{\circ}$ C, L = 2 $^{\circ}$ C, H = 8 $^{\circ}$ C, HH = 10 $^{\circ}$ C), 5 minute acquisition interval, STOP button not activated.	10 pcs	70101013
MINI 1 WAY PROGRAMMABLE ON REQUEST	Provide Giorgio Bormac with alarm thresholds with delays, acquisition interval, acquisition, possible activation of STOP button.	10 pcs	70101003
MINI 1 WAY LCD WITH DISPLAY	Provide Giorgio Bormac with alarm thresholds with delays, acquisition interval, possible activation of acquisition, possible activation of STOP button.	10 pcs	70101043

NEW MINIT-T1-TH-TB

O Memory: 48000 records O Resolution: 0,01°C

O Recording interval: from 5 seconds to 24 hours

O Automatic file storage: ZLG, TXT, CSV, PDF



XS mini loggers are programmable with zLogg Manager software, and automatically generate a report in PDF format.

They have a multi-function display:

(date/time, sampling interval, start and stop recording mode, minimum, maximum, average value and average kinetic temperature). They are supplied with a buzzer sounds when thresholds are exceeded.

All at the click of a button. The logger works like a normal USB stick and automatically generates report files. No software is required to download data.

It has 4 alarm thresholds programmable via software.

When connected to a PC USB port, XS mini loggers automatically generate a PDF report in graphical format.

Each model is built with high quality materials to ensure precision and reliability.

	Name	Range	Resolution	Accuracy	p/n
NEW	MINI T EXTERNAL PROBE	T: - 40+80 °C	0,01°C	T: ±0,2°C (-10+80°C)/±0,5°C (-4010°C)	70100503
NEW	MINI T1 EXTERNAL PROBE	T: - 40+80 °C	0,01°C	T: ±0,3°C (-10+80°C)/ ±0,5°C (-4010°C)	70100513
NEW	MINI TH TEMPERATURE + HUMIDITY	T:-40+80°C H:1090% RH	0,01 °C 0,01 % RH	T: ±0,2°C(-10+80°C)/±0,5°C(-4010°C) H:±3%RH(+1525°C)/±5% elsewhere	70100523
NEW	MINI TB WITH PROBE	T:-200+200°C	0,01°C	T: 0,3°C(-30+120°C), ±0,5°C(elsewhere), ±1°C(+120+200°C)	70100533
	DBAT MINI BATTERY	DBAT Mini replacement	t batteries for Mini XS		70109993



NEW UR 100

- O Working range T: 0 ... +60,0 °C
- O Working range RH: 0 ... +95,0 °C
- O Resolution 0,1°C / 0,1 %
- O ACCREDIA certifiable

Digital thermos-hygrometer with backlight display.

Simultaneous reading of temperature and humidity.

Temperature display in °C/°F, relative humidity and dew point.

Maximum and minimum U.R. value recording. Accredia certifiable.

Equipped wit:

Suitcase, temperature/humidity probe and user's manual.



52000302

Humidity certification



LAT center n. 123

Measurement uncertainty: 0.6...2.3 %UR

For digital thermos-hygrometers complete with probe

Range	p/n
1 temperature point + 3 humidity points for each temperature point (max. difference 50%)	21006299
1 temperature point + 4 humidity points from 10 % to 90 % UR	21006309
2 temperature points + 4 humidity points for each temperature point	21006319
3 temperature points + 4 humidity points for each temperature point	21006329
3 temperature points + 3 humidity points for each temperature point	21006339

O Calibration temperature (+5 °C...+75°C) and details of the customer to be mentioned on the certificate must be communicated to grant fast delivery time.

SPECTROPHOTOMETERS VIS AND UV/VIS













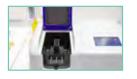
Touchscreen

A 5" TFT high definition color display for a new level of experience. Easy user interface, built-in features (photometry, quantitation, spectrum scan). In addition: File management, System Utility and Performance verification.



Connectivity and Storage

USB Flash Drive connection for data and methods storage. PC remote control, RS-232 port for printer connection. Internal memory to save methods and data.



Access and maintenance

Removable front panel, anticorrosive material cell holder, drain hole inside the sample compartment: designed to protect the instrument from accidental spills, time wear and damages.



Lamp compartment

Removable top panel for an easier and faster access to the sources compartment, for a rapid inspection of the lamps, check of alignment and lamp replacement.



Multi-language user interface

Select your preferred language to improve the interactivity with Onda Touch instruments. Available languages: English, German, Spanish, French, Italian and Portuguese.



UV-31 SCAN

- O UV / VISIBLE
- O Coloured Display 5" TOUCH SCREEN
- O Range 190 1100 nm
- O Bandwidth 2 nm



Single beam UV/VISIBLE spectrophotometer. 2 nm bandwidth, single beam, Tungsten/Deuterium lamps. USB flash memory, operating system multi-language.

Functions: photometry, quantitative, spectrum scan, file management, performance verification

External dimensions (LxWxH) 456x360x185mm. Weight 10.7 kg. Power supply 100 - 240 V AC -50/60 Hz - Power: 120 W

Supplied as standard: 4 optical glass cuvettes o.p. 10 mm, 2 quartz cuvettes o.p. 10 mm, 4-position cell holder (10 mm), power cable, dust cover, USB flash memory, calibration report and Easy UV Basic software (allowing Quantitative, Single λ Photometric, Kinetic analysis).

Name	Range	Bandwidth	Beam	Source	p/n
UV-31 SCAN	190 - 1100 nm	2 nm	Single	Tungsten/Deuterium	11000082

V-11 SCAN

- **O VISIBLE**
- O Coloured Display 5" TOUCH SCREEN
- O Range 320 1100 nm
- O Bandwidth 4 nm



VISIBLE single beam spectrophotometer.

4 nm bandwidth, single beam, Tungsten lamp, USB flash memory, operating system multi-language.

Functions: photometry, quantitative, spectrum scan, file management, performance verification.

External dimensions (LxWxH) 456x360x185mm. Weight 10.5 kg. Power supply 100 - 240 V AC, 50/60 Hz - Power 75 W.

Supplied as standard: 4 o.p. 10 mm optical glass cuvettes, 4-position cell holder (10 mm), power cable, dust cover, USB flash memory, calibration report and Easy UV Basic software (allowing Quantitative, Single *λ* Photometric, Kinetic analysis).

Name	Range	Bandwidth	Beam	Source	p/n
V-11 SCAN	320 - 1100 nm	4 nm	Single	Tungsten	11000062



UV-21

- O UV / VISIBLE
- O Coloured Display 5" TOUCH SCREEN
- O Range 195 1050 nm
- O Bandwidth 4 nm



Single beam UV/VISIBLE spectrophotometer. 4 nm bandwidth, single beam, Tungsten/Deuterium lamps. USB flash memory, operating system multi-language.

Functions: photometry, quantitative, file management, performance verification

External dimensions (LxWxH) 456x360x185mm. Weight 10.7 kg Power supply 100 - 240 V AC -50/60 Hz - Power: 120 W

Supplied as standard: 4 optical glass cuvettes o.p. 10 mm, 2 quartz cuvettes o.p. 10 mm, 4-position cell holder (10 mm), power cable, dust cover, USB flash memory, calibration report and Easy UV Basic software (allowing Quantitative, Single λ Photometric, Kinetic analysis)

Name	Range	Bandwidth	Beam	Source	p/n
UV-21	195 - 1050 nm	4 nm	Single	Tungsten/Deuterium	11000072

SOFTWARE EASY UV FOR ONDA TOUCH SERIES

Easy UV is the application software based on Windows operating systems for the remote control of ONDA touch Series instruments. The application range, data analysis and file management function are greatly expanded, for example to clinical applications (hemoglobin oxygen saturation) and basic biotechnology research (UV methods for DNA/proteins, range DNA 0,2-70 $\mu g/ml$).



Functions:

Photometry, Quantitative, Kinetics, Multi-wavelength, Spectrum scan, DNA/protein (UV methods), Wine color analysis.

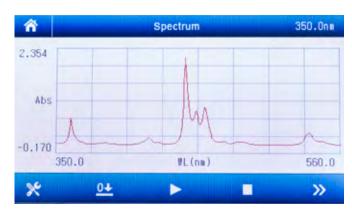








Main Menu Onda TOUCH



Graphic visualization of a spectrum scan

ACCESSORIES AND SUPPORTS



ACCESSORIES

Name	Description	p/n			
EASY UV SOFTWARE	For OS Windows, includes the functions: Photometry, Quantitative, Kinetics, Multi-wavelength, Spectrum scan, DNA/protein (UV methods), Wine color analysis. Includes USB installation key, USB cable, USB dongle user license, user manual	11000972			
MICRO PRINTER RS 232	Supplied with power supply, RS232 connection cable, roll of normal paper	11000442			
IQ-OQ MANUAL	IQ-OQ paper manual for ONDA spectrophotometers. Filled in by Giorgio Bormac staff to order separately (cod. 11000959)	11000192			
VISIBLE SOURCE REPLACEMENT LAMP	VISIBLE range source. Tungsten-halogen lamp. Vertical filament. Compatible with V-10 Plus , UV-20 and UV-30 SCAN models .	11000912			
VISIBILE SOURCE REPLACEMENT LAMP	VISIBLE range source. Tungsten-halogen lamp. Horizontal filament. Compatible with V-11 SCAN, UV-21 and UV-31 SCAN models .	11000942			
UV SOURCE REPLACEMENT LAMP	UV range source. Deuterium lamp. Compatible with all ONDA models.	11000922			
ADAPTOR TUBES 1 mm	Adaptor 10x10 for optical path tubes 1 mm Min. quantity order: 2 pcs	11000582			
DUST COVER	for ONDA spectrophotometer	11000932			
SUPPORTS					
Description		p/n			
4 position cell holder for up	p to 10 mm square cuvettes	11000202			
4 position cell holder for up	p to 50 mm square cuvettes	11000212			
4 position cell holder for up	p to 100 mm square cuvettes	11000222			
Single position cell holder for micro-cells ,central beam height: 15 mm					
5° Reflectance measurem (minimum sample: 20mmx	nents Support x20mmx4mm, central beam height: 50mm)	11000412			
Single position Solid samp	ole holder (dimensions 50x30x2mm)	11000422			
8 position automatic cell h	nolder for up to 10 mm optical path square cuvettes	11000242			
5 position automatic cell holder for 10mm-100mm optical path cuvettes					
Test tube holder Ø 16mm , r	max height: 90mm, central beam height: 45mm	11000532			

SPECTROPHOTOMETERS CUVETTES



OPTICAL GLASS CELLS FOR VISIBLE - RANGE 320 - 1400 nm

Description	Dimensions (L x W x H) mm	Volume ml	p/n
Special optical glass cuvettes, 1 mm optical path. 2-piece set	12,5 x 3,5 x 45	0,4	11000382
Special optical glass cuvettes, 10 mm optical path. 4-piece set	12,5 x 12,5 x 45	3,5	11000252
Special optical glass cuvettes, 20 mm optical path. 4-piece set	12,5 x 22,5 x 45	7	11000262
Special optical glass cuvettes, 30 mm optical path. 4-piece set	12,5 x 32,5 x 45	10,5	11000272
Special optical glass cuvettes, 50 mm optical path. 4-piece set	12,5 x 52,5 x 45	17,5	11000282
Special optical glass cuvettes, 100 mm optical path. 4-piece set	12,5 x 102,5 x 45	35	11000292
Flow cuvette made of special optical glass, optical path 10 mm Beam height at 15 mm. Micro-cell holder required cod.11000232	12,5 x 12,5 x 45	0,7	11000492

QUARTZ CELLS FOR UV - RANGE 190 - 1400 nm

Description	Dimensions (L x W x H) mm	Volume ml	p/n
Quartz glass cuvettes, 1 mm optical path. 2 pieces	12,5 x 3,5 x 45	0,4	11000522
Square quartz glass cuvettes, 10 mm optical path. 2-piece set	12,5 x 12,5 x 45	3,5	11000302
Quartz glass cuvettes, 20 mm optical path. 2-piece set	12,5 x 22,5 x 45	7	11000312
Quartz glass cuvettes, 30 mm optical path. 2-piece set	12,5 x 32,5 x 45	10,5	11000322
Quartz glass cuvettes, 50 mm optical path. 2-piece set	12,5 x 52,5 x 45	17,5	11000332
Quartz glass cuvettes, 100 mm optical path. 2-piece set	12,5 x 102,5 x 45	35	11000342



1mm



10 mm





30 mm



50 mm



SPECIAL CELLS- MICRO-CELLS HOLDER REQUIRED Part. No.11000232

Description	Dimensions (L x W x H) mm	Volume μl	p/n
MICRO quartz glass cuvette, optical path 10 mm	12,5 x 12,5 x 45	100	11000352
MICRO quartz glass cuvette, optical path 10 mm	12,5 x 12,5 x 45	200	11000362
MICRO quartz glass cuvette, optical path 10 mm	12,5 x 12,5 x 45	500	11000372
MICRO quartz glass cuvette, optical path 10 mm	12,5 x 12,5 x 45	1000	11000392
Flow cuvette made of special optical glass, optical path 10 mm (beam height 15 mm)	12,5 x 12,5 x 45	700	11000492
Quartz glass flow cuvette, optical path 10 mm (beam height 15 mm)	12,5 x 12,5 x 45	700	11000502







Flow cuvette





SIPPER and PELTIER SYSTEM



Name	Description	p/n	
SIPPER A-1101 FLOWING SYSTEM	Flow cell system, complete with external unit, power cable, connection cable, micro-cell holder, quartz flow cell, silicone flow tubes, adjustable flow rate from 1 to 8 ml/min. External dimensions (LxWxH) 170x270x115mm. Weight 3 kg. Power 240 V AC, 50/60 Hz	11000552	
PELTIER A-1201 THERMOSTATIC SYSTEM	System for selectable constant temperature range 10-60°C, complete with outdoor unit, power cable, connection cable, special micro-cell thermostatic stand. External dimensions (LxWxH) 170x270x115mm. Weight 3kg. Power 240 V AC, 50/60 Hz NO CUVETTE INCLUDED.	11000562	
SIPPER / PELTIER A-1001 COMBINED SYSTEM	Selectable constant temperature and flow cell system. Range 10-60°C, flow rate adjustable from 1 to 8 ml/min. Complete with external unit, power cord, connection cable, special thermostatically finned micro-cell holder, quartz flow cell, silicone flux tubes. External dimensions (LxWxH) 170x270x115mm. Weight 3 kg. Power supply 240 V AC, 50/60 Hz	11000572	

CALIBRATION REPORT

All Onda spectrophotometers are supplied with a calibration report performed according to ISO 17025 requirements, to measure with traceability.

On the calibration report are reported:

- WAVELENGHT ACCURACY
- PHOTOMETRIC ACCURACY
- STRAY LIGHT TEST
- MEASUREMENT UNCERTAINTY
- TRACEABILITY STATEMENT





V-10 PLUS

- O VISIBLE Single beam
- O Range 325 1000 nm
- O Bandwith 4 nm



VISIBLE single beam spectrophotometer. Single beam optical system, 4 nm bandwidth, Tungsten lamp. LCD display, membrane keypad.

Spectral resolution 0.1 nm,
Photometric accuracy ±0.5%T,
Photometric accuracy ±0.3%T.
Photometric range 0...200%T, -0.3...3Abs, 0...1999Conc.

Functions: Transmittance, Absorbance, Concentration, Coefficients

External dimensions (LxWxH) 490x360x210mm. Weight 12 kg. Power 100 - 240 V AC, 50/60 Hz. Power 75 W.



Monochromator: 1200 lines/mm reticle

Supplied as standard:

Complete with slide cell holder for $4 \times 10 \text{ mm}$ o.p. cuvettes, $4 \times 10 \text{ mm}$ special optical glass square cuvettes, EU power cord, MWave Basic Software (allowing Quantitative, Single λ Photometric, Kinetic analysis), dust cover, calibration report.

Name	Range	Bandwidth	Beam	Source	p/n
V-10 PLUS	325 - 1000 nm	4 nm	Single	Tungsten	11000052

ACCESSORIES FOR V-10 PLUS

Name	Description	
PRO-WINE SOFTWARE	Software for V-10 PLUS (Includes the installer CD, USB cable, USB dongle usage license key, User manual). Necessary PC with Windows operating system and two USB ports.	11000962
MICRO PRINTER RS 232	Thermal paper, supplied with power supply, connection cable, paper roll	11000452
MANUAL IQ-OQ	Paper manual IQ-0Q for ONDA spectrophotometer. Filled in by Giorgio Bormac staff to order separately (part no. 11000959)	11000192
VISIBLE SOURCE REPLACEMENT LAMP	VISIBLE range Source. Tungsten-Halogen Lamp. Horizontal filament . Compatible with V-10 Plus, UV-20 and UV-30 Scan models	11000912
ADAPTOR TUBES 1 mm	Adaptor 10x10 for optical path tubes 1 mm Min. quantity order: 2 pcs	11000582



SUPPORTS

Description	p/n
Cell support 4 positions, optical path cuvettes up to 10 mm	11000202
Cell support 4 positions , optical path cuvettes up to 50 mm	11000212
Cell support 4 positions, optical path cuvettes up to 100 mm	11000222
Microcell holder, 15 mm beam height, one position	11000232
Cell holder for test tubes (Ø 8 to 24 mm, max. height 100 mm, radius height 45 mm) only for V-10 PLUS	11000402
Support for 5° reflectance measurements (20 x 20 x 4 mm sample)	11000412
Stand for solid sample (size $50 \times 30 \times 2$ mm), one position	11000422

CUVETTES FOR VISIBLE - RANGE 320 - 1400 nm

Description	Dimensions (WxLxH)mm	Volume ml	p/n
Special optical glass cuvettes, 1 mm optical path. 2-piece set	12,5 x 3,5 x 45	0,4	11000382
Square cuvettes made of special optical glass, optical path 10 mm. 4-piece set	12,5 x 12,5 x 45	3,5	11000252
Special optical glass cuvettes, 20 mm optical path. 4-piece set	12,5 x 22,5 x 45	7	11000262
Special optical glass cuvettes, 30 mm optical path. 4-piece set	12,5 x 32,5 x 45	10,5	11000272
Special optical glass cuvettes, 50 mm optical path. 4-piece set	12,5 x 52,5 x 45	17,5	11000282
Special optical glass cuvettes, 100 mm optical path. 4-piece set	12,5 x 102,5 x 45	35	11000292
Flow cuvette made of special optical glass, optical path 10 mm (beam height at 15 mm). Micro-cell holder required cod.11000232	12,5 × 12,5 × 45	0,7	11000492















ONDA brochure is available on our website www.giorgiobormac.com

REFRACTOMETERS

YEARS





A refractometer is an optical measuring instrument used to determine the refractive index of a substance, or some physical property of a substance that is directly related to its refractive index.

It can be used to establish the identity of an unknown substance based on its refractive index, to establish the purity of a particular substance or to determine the concentration of one substance dissolved in another.

Commonly the refractometers are used to measure fluid concentrations such as the sugar content (Brix level) of fruits, vegetables, juices and carbohydrate drinks or for cutting fluids, specific gravity of urine, concentration of protein in the blood, degree of moisture in the honey (myelometer), salinity, antifreeze properties, industrial fluids.





DBR 95

O Measuring range 0,0..95,0 % Brix

O Simultaneous display of brix, temperature and refractive index

Portable and benchtop digital refractometer. **Automatic temperature compensation**. Self-calibrating system with distilled water. Sample volume 1ml. Programmable MIN/MAX alarm threshold.

Powered by 3,7 V rechargeable battery.

Working range BRIX= 0,0...95,0 % Brix ($\pm 0,3 \%$), Refractive index = 1,3330...1,5318 nD, Temperature = $0...40 °C (\pm 0,1 °C)$.



Always equipped with:

Carrying case, power supply and USB cable, user manual.

Name	Description	Measuring range	Accuracy	p/n
DBR 95	Benchtop digital refractometer	0,0 - 95,0 % Brix	±0,3 %	44000063

DBR 55 / DBR SAL

O Measuring range: 0,0..55,0 % Brix

O Salinity measuring range: 0,0..28,0 % NaCl

Portable and bench-top waterproof digital refractometer. Backlit display.

Automatic temperature compensation 10.0..60.0 °C. Self-calibrating with water. 0.5 ml sample volume. Stores up to 20 data, with cyclic memory. Rubber shell and hard case.

Power supply 2 x 1.5 V (AAA Alkaline). Dimensions 58 x 36 x 122 mm. Weight 150 q.



Name	Description	Measuring range	Accuracy	p/n
DBR 55	Benchtop digital refractometer	0,055,0 % Brix	±0,2 %	44000073
DBR SAL	Salinity digital refractometer	0,028,0 % NaCl	±0,2 %	44000053



DBR WINE

O Measuring range 0,0..55,0 % Brix

Portable and bench-top waterproof digital refractometer. Backlit display. Automatic temperature compensation 10.0..60.0 $^{\circ}\text{C}.$

Self-calibrating with water.

Sample volume 0.5 ml. Rubber shell and hard case.

Power supply 2 x 1.5 V (AAA Alkaline). Dimensions 58 x 36 x 122 mm. Weight 150 g.

RANGE	Measuring range	Resolution
Brix	0.0 ~ 55.0%	0,1%
Temperature	0°C ~ 70°C	0,1°
Bé (Baumé)	0.0° ~ 29.8°	0,1°
Babo	0.0° ~ 46.4°	0,1°
Oe (Oechsle)	0° ~ 256°	1°
TAVP *	0.0% - 37,9%	0,1 %





Name	Description	Measuring range	Accuracy	p/n
DBR WINE	Benchtop digital refractometer	0,055,0 % Brix	±0,2 %	44000093

DBR COFFEE

App HMCoffee





- O Measuring range 0,00..26,00 % Brix
- O Bluetooth connection: downloadable App for data storage.

Portable and bench-top waterproof digital refractometer. Backlit display. Automatic temperature compensation 10.0..60.0 °C. Self-calibrating with water. Sample volume 0.5 ml. Rubber shell and hard case. Power supply 2 x 1.5 V (AAA Alkaline). Dimensions $58 \times 36 \times 122$ mm. Weight 150 g.

Measuring range

BRIX= 0.00..26.00 % Brix $(\pm 0.20 \%)$, TDS= 0.00..23.00 % TDS $(\pm 0.1 \%)$, Temperature = $0..70 °C (\pm 0.1 °C)$.



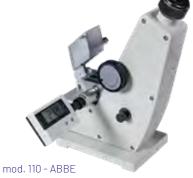
Name	Description	Measuring range	Accuracy	p/n
DBR COFFEE	Benchtop digital refractometer	0,0026,00 % Brix	±0,20 %	44000083



OPTICAL REFRACTOMETERS







Lid with led

All refractometers are supplied with hard case and calibration screwdriver.

Model	Measuring range	Features	p/n
110 ABBE	Brix: 0,0 - 95,0 % (±0,25%) nD: 1,3000 - 1,7000 (±0,0002)	Bench refractometer with thermostatable prism. Complete with digital thermometer and calibration prism	43000133
THERMOMETER DIGITAL FOR ABBE	Replacement thermometer for Abbe 11	0	43000153
Model	Measuring range (% BRIX)	Features	p/n
101	Brix: 0-32 % (±0,2%)		43000013
101 ATC	Brix: 0-32 % (±0,2%)	Automatic temperature compensation	43000103
101 ATC LED	Brix: 0-32 % (±0,2%)	Automatic temperature compensation	43000203
102	Brix: 28-62% (±0,2%)		43000023
103	Brix: 0-80 % (±0,5%)		43000033
103 LED	Brix: 0-80 % (±0,5%)		43000223
104 HONEY	Brix : 58-92% Water : 12-27% Be : 38-43°	Triple scale	43000043
105 CLINIC	Serum : 0-12 g/dL Urine specific gravity:1000 - 1050 nD Refraction index:1,3330 - 1,3600	Triple scale	43000053
106 SALINITY	Sodium Chloride: 0-28% (±0,2%)		43000063
106 ATC SALINITY	Sodium Chloride: 0-100 ‰ Specific gravity: 1000-1070	Double scale Automatic temperature compensation	43000113
107 ATC WINE	Brix: 0-35 % Babo: 0-28%	Double scale Automatic temperature compensation	43000123
107 ATC LED	Brix: 0-35 % Babo: 0-28%	Double scale Automatic temperature compensation	43000233
414 ATC ANTIFREEZE BATTERIES	Ethylene glycol: -50 °C / 0 °C Propylene glycol:-50 °C / 0 °C Cleaner: -40 °C / 0 °C Batteries fluid: 1.10 / 1.40 sg.	Automatic temperature compensation	43000173
UREA	Brix: 0-40 %	Signal mark at 32,5% Brix	43000193
Accessories			p/n
LID	Spare part lid for telescope refractome	eters without lighting	43000163
LID WITH LED	Spare part lid with LED lighting It allows a perfect reading even if there The cover is interchangeable and can b	e's low or no lighting be installed on all the optical refractometers models.	43000003

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32208103	DIAPHRAGM CLEANING solution (thiourea) for XS Sensor, bottle 250 ml	58	
32208113	KCI 3M + AgCI Solution 55 ml	45	
32382903	1x55 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless, without certificate	55	
32383123	1x55 ml XS buffer solution pH 4,01 ± 0,02 / 25°C red color, without certificate	55	

p/n	DESCRIPTION		NOTE
32383133	1x55 ml XS buffer solution pH 7,00 \pm 0,02 / 25°C green color, without certificate	55	
32383143	$1x55$ ml XS buffer solution pH 9,00 \pm 0,02 / 25° C blue color, without certificate	55	
32383153	Standard Redox 475mV 1 x 55 ml	55	
32383163	1x55 ml XS buffer solution ORP-Redox mV465 ± 10mV /25°C yellow/brown color, without certificate	55	
32383163	Standard Redox 468mV 1 x 55 ml	57	
32390001	Conductivity cell in graphite	50	
33412913	S7 Head - ONLY S7 head for 5mm cable	52	
33412923	BNC - Only BNC plug for 5mm cable	52	
33550533	Coaxial cable with antistatic sheat for electrodes, diameter 5mm Price at meter	52	
33550563	Cable assembled with S7 head - BNC CONNECTOR - Lenght 5m	52	
33550663	Cable assembled with S7 head - OPEN WIRES - Lenght 5m	52	
33550673	Cable assembled with S7 head - BNC CONNECTOR - Lenght 1m	52	
33550733	Cable assembled with S7 head - OPEN WIRES - Lenght 3m	52	
3550743	Cable assembled with S7 head - BNC CONNECTOR - Lenght 3m	52	
3550753	Cable assembled with S7 head - BNC CONNECTOR - Lenght 10m	52	
3550763	Cable assembled with S7 head - open wires 20 m	52	
3550773	Cable assembled with S7 head - BNC CONNECTOR - Lenght 20m	52	
3550803	Cable assembled with S7 head - OPEN WIRES - Lenght 10m	52	
3550813	Cable S7 male - BNC cable	12	
3550823	BNC cable - open wires	12	
3550833	BNC - BNC cable	12	
3550843	BNC - DIN cable	12	
3550903	DIN - Only DIN plug for 5mm cable	52	
3551091	VP 6 cable for electrode with PT100-PT1000 3m	52	
3551101	VP 6 cable for electrode with PT100-PT1000 5m	52	
3551111	VP 6 cable for electrode with PT100-PT1000 10m	52	
3551733	S7/ BNC cable lenght 1mt for pH electrode	52	
3551743	1 m cable S7 / DIN	52	
0000022	R-5D Ventilated bench top centrifuge	86	
+0000272	Fixed angle rotor R-83A, 12 x 15 ml, supplied with metal buckets and tubes. SPARE PART only for R-5S+	86	
0003402	T 15F Falcon tube 15ml	80	
0003412	T 15G Glass tube 15ml	80	
0003422	T 15P Plastic tube 15ml	80	
+0003432	T 50F Falcon tube 50ml	80	
0003442	T 50G Glass tube 50ml	80	
0003452	T 50P Plastic tube 50ml	80	
0003462	T 100G Glass tube 100ml	80	
0003472	T 100P Plastic tube 100 ml	80	
0003492	T 175 Plastic flat bottom bottle 175 ml	80	
0005012	MULTISPIN 12, Mini Microcentrifuge	87	
0100202	Neya 5 Ventilated bench-top centrifuge fixed and swing-out hybrid rotor	84	
0100302	NEYA 8 Ventilated centrifuge BASIC, 4x175 ml, 6000rpm	77	
0100312	NEYA 10 Ventilated centrifuge PR0FESSI0NAL, 4x175 ml, 6000rpm, 10 Programs	78	
+0100322	NEYA 16 Ventilated centrifuge HIGH SPEED, 4x175 ml, 16000rpm, 10 Programs	79	
0100332	NEYA 10R Refrigerated centrifuge PROFESSIONAL, 4x175 ml, 6000rpm, 10 Programs	78	
0100342	NEYA 16R Refrigerated centrifuge HIGH SPEED, 4x175 ml, 16000rpm, 10 Programs	79	
+0100502	Swing out rotor KIT SB 4-175, composed by S.O. rotor S 4-175, 4 buckets B 175 (175ml) and 4 Biosafe lids L 175	80	

p/n	DESCRIPTION		NOTE
40100522	Swing out rotor S 6-96 MP for MICROPLATE, supplied complete of 2 plates, max. 6x96 wells	81	
40100602	Insert I 12-2 (12 microtubes 1,5-2ml) for buckets B 175. Set of 4 pcs.	80	
40100612	Insert I 7-5/7 (7 collection tubes 5-7ml) for buckets B 175. Set of 4 pcs.	80	
40100622	Insert I 7-10 (7 collection tubes 10ml) for buckets B 175. Set of 4 pcs.	80	
40100632	Insert I 4-15F (4 Falcon/conical tubes 15ml) for buckets B 175. Set of 4 pcs.	80	
40100642	Insert I 4-15R (4 round bottom tubes 15 ml) for buckets B 175. Set of 4 pcs.	80	
40100662	Insert I 1-50R (1 round bottom tube 50 ml) for buckets B 175. Set of 4 pcs.	80	
40100672	Insert I 1-100 (1 round bottom tube 100 ml) for buckets B 175. Set of 4 pcs.	80	
40100682	Insert I 1-50SF (1 Falcon/conical self standing tube 50ml) for buckets B 175. Set of 4 pcs.	80	
40100802	Fixed angle rotor A 32-15 for 32 tubes 15ml	82	
40100812	Fixed angle rotor A 8-50 for 8 tubes 50ml	82	
40100822	Fixed angle rotor A 6-100 for 6 tubes 100ml	82	
40100832	Fixed angle rotor A 12-5 for 12 tubes 5ml Eppendorf, supplied with Biosafe lid ONLY for NEYA 16-16R	83	
40100842	Fixed angle rotor A 24-2 for 24 microtubes 1,5-2ml Eppendorf, supplied with Biosafe lid ONLY for NEYA 16-16R	83	
40100852	Fixed angle rotor A 36-05 for 36 microtubes da 0,5 Eppendorf, supplied with Biosafe lid ONLY for NEYA 16-16R	83	
40100862	Fixed angle rotor A 6-50 HIGH SPEED 6 tubes 50ml, supplied with Biosafe lid ONLY for NEYA 16-16R	83	
40100872	Fixed angle rotor PCR 4-8 for 4 strips of 8 PCR , supplied with Biosafe lid ONLY for NEYA 16-16R	83	
40101002	Spare carriers complete with 15 ml Falcon tube	86	
40101002	B 15F metal buckets complete of Falcon tube 15 ml. Only for F.A. rotor A 32-15	82	
40101012	B 15G metal buckets complete of Glass tube 15 ml. Only for F.A. rotor A 32-15	82	
40101022	Spare carriers complete with 15 ml plastic tube	86	
40101022	B 15P metal buckets complete of Plastic tube 15 ml. Only for F.A. rotor A 32-15	82	
40101032	B 50XF metal buckets complete of Falcon tube 50 ml. Only for F.A. rotor A 8-50 and A 6-50	82	
40101042	B 50XG metal buckets complete of Glass tube 50 ml. Only for F.A. rotor A 8-50 and A 6-50	82	
40101052	B 50XP metal buckets complete of Plastic tube 50 ml. Only for F.A. rotor A 8-50 and A 6-50	82	
40101092	B 100G metal buckets complete of Glass tube 100 ml. Only for F.A. rotor A 6-100	82	
40101102	B 100P metal buckets complete of Plastic tube 100 ml. Only for F.A. rotor A 6-100	82	
40101262	RE 2-05 reductor for microtube from 2ml to 0,5ml. Set of 24 pcs.	83	
40101272	RE 2-02 reductor for microtube from 2ml to 0,2ml. Set of 24 pcs.	83	
40101282	RE 05-02 reductor for microtube from 0,5ml to 0,2ml. Set of 36 pcs.	83	
40101292	RE 15-5/7 reductor for tube from 15ml to 5/7ml (13x75mm and 13x100mm). Metal bucket included	83	
40101322	RE 50-15 F reductor from 50ml to 15ml Falcon/conical tube. Metal bucket included	83	
40101332	RE 50-15 R reductor from 50ml to 15ml round bottom tube. Metal bucket included	83	
40101342	RE 50-10 reductor from 50ml to 10ml collection tube. Metal bucket included	83	
40101352	RE 100-50F reductor from 100ml to 50ml Falcon/conical tube. Metal bucket included	83	
40101362	RE 100-50R reductor from 100ml to 50ml round bottom tube. Metal bucket included	83	
40101372	RE 100-15F reductor from 100ml to 15ml Falcon/conical tube. Metal bucket included	83	
40101382	RE 100-15R reductor from 100ml to 15ml round bottom tube. Metal bucket included	83	
40101502	Swing out rotor S 4-175. ONLY ROTOR	81	
40101512	Bucket B 175 (175 ml) for rotor S 4-175. One piece.	80	
40101522	Biosafe lid L 175. One piece	80	
40101532	B 2-50F carrier for 2 Falcon/conical tubes 50 ml. For rotor S 4-175 (min. 4 pieces). One piece	81	
40101542	B 7-15F carrier for 7 Falcon/conical tubes 15 ml. For rotor S 4-175 (min. 4 pieces). One piece	81	
40101552	B 12-10 carrier for 12 collection tubes 10 ml . For rotor S 4-175 (min. 4 pieces). One piece	81	
40101562	B 14-5/7 carrier for 14 collection tubes 5/7ml . For rotor S 4-175 (min. 4 pieces). One piece	81	
40101572	B 16-5/7 carrier for 16 collection tubes 5/7ml . For rotor S 4-175 (min. 4 pieces). One piece	81	
40101582	B 2-50R carrier for 2 round bottom tubes 50 ml. For rotor S 4-175 (min. 4 pieces). One piece	81	

p/n	DESCRIPTION		NOTE
40101592	B 7-15R carrier for 7 round bottom tubes 15 ml. For rotor S 4-175 (min. 4 pieces). One piece	81	
40110102	Fixed-angle rotor with 15 ml and 50 ml carrier, tube-holder included (Neya 5)	84	
40110112	Swing-out rotor with 15 ml and 50 ml carrier, tube-holder included (Neya 5)	84	
40110122	"Fixed and swing-out angle rotor with 10 ml carrier and 5,7 ml reducer vacutainer tubes, tube holder and reducers included (Neya 5)"	84	
40110302	Fixed angle kit equipped with 15 ml carrier (set of 4 pcs) and 50 ml carrier (set of 4 pcs) complete with tube holder (Neya 5)	84	
40110312	Swing-out kit equipped with 15 ml carrier (set of 4 pcs) and 50 ml carrier (set of 4 pcs)complete with tube holder (Neya 5)	84	
40110322	Fixed and swing-out angle kit equipped with: fixed-angle carrier for 10 and 5-7 ml Vacutainer tubes . Complete with RE15-5.7S and RE15-7L reducers.	84	
41100102	Steel wire shelf for TCN 50 / TCF 50	103	
41100112	Steel wire shelf for ICF 120	103	
41100122	Steel wire shelf for ICF 200	103	
41100132	Steel wire shelf for ICF 400	105	
41100142	Steel wire shelf for TCN 30	103	
41100152	Steel holed platform applicable to wire shelf for TCN 50 / TCF 50	103	
41100162	Steel holed platform applicable to wire shelf for ICF 120	103	
41100172	Steel holed platform applicable to wire shelf for ICF 200	103	
41100182	Steel holed platform applicable to wire shelf for ICF 400	105	
41100192	Steel holed platform applicable to wire shelf for TCN 30	103	
41101112	Steel wire shelf for ICN 16	107	
41101122	Steel wire shelf for ICN 35	107	
41101132	Steel wire shelf for ICN 55	107	
41101142	Steel wire shelf for ICN 120	107	
41101152	Steel wire shelf for ICN 200	107	
41101172	Wheels for ICN 200, TCN 200, TCF 200, TCF 400 - Set of 4 pcs.	103	
41101462	Steel wire shelf for climatic chamber CH 150	112	
41101472	Steel wire shelf for climatic chamber CH 250	113	
41101562	Steel wire shelf for cooling Incubator IC 150-R	110	
41101572	Steel wire shelf for IC 50-P	111	
41101802	Rack 1 for tubes Ø13mm / 20 positions	115	
41101812	Rack 2 for tubes Ø18mm / 20 positions	115	
41101822	Rack 3 for tubes Ø31mm / 5 positions	115	
41101842	Rack 4 for tubes Ø56mm / 8 positions (biberon)	115	
41101852	Rack 5 for blood bags / 5 positions	115	
41101952	Becker support WB 12 - 4 places	115	
41101962	Becker support WB 22 - 8 places	115	
41102042	Platform 4 bars	96	
41102052	Platform dish with non-slip bar	96	
41102062	Additional bar for universal platform	96	
41102072	Universal platform with nr. 4 adjustable bars for SKI 8 R	97	
41102082	Support with anti-slip film (fixing bands included) for SKI 8 R	97	
41102112	Holed platform for flask clips	96	
41102122	Perforated support for fixing clips for SKI 8 R	97	
41102132	Fixing clip for flask volume 100 ml for SKI 4	96	
41102142	Fixing clip for flask volume 200/250 ml for SKI 4	96	
41102152	Fixing clip for flask volume 500 ml for SKI 4	96	
41102162	Fixing clip for flask volume 1000 ml for SKI 4	96	
41102172	Fixing clip for flask volume 2000 ml for SKI 4	96	
41102302	Set of 2 tubes of 2 meters with insulating material (working range -40 ÷ +60 °C), complete with metal clamps	114	

p/n	DESCRIPTION		NOTE
41102312	Set of four swivelling wheels, two of which brakeble	114	
41102322	Premixed thermal fluid ready to use, working range -30 ÷ +80 ° C. Tank box 5 litres with plastic tap	114	
41110142	Hole 50 mm complete of closing caps for incubators ICF	103	
41110152	Hole 25 mm complete of closing caps for incubators ICF	103	
41119002	IQ-OQ paper manual for all oven and incubators	103	
41200002	TCN 50 PLUS - natural convection oven 50 Lt	102	
41200012	TCN 115 PLUS - natural convection oven 115 Lt	102	
41200022	TCN 200 PLUS - natural convection oven 200 Lt	102	
41200062	TCN 30 PLUS - natural convection oven 30 Lt	102	
41200202	TCF 50 PLUS forced air oven 50 Lt	104	
41200212	TCF 120 PLUS forced air oven 120 Lt	104	
41200222	TCF 200 PLUS forced air oven 200 Lt	104	
41200232	TCF 400 PLUS - forced air oven 400 Lt	104	
41200502	TCN 50 SUPER natural convection oven, 50 Lt touch screen colour display, unlimited data memory with USB port and USB stick.	102	
41200512	TCN 115 SUPER natural convection oven, 115 Lt touch screen colour display, unlimited data memory with USB port and USB stick.	102	
41200522	TCN 200 SUPER natural convection oven, 200 Lt touch screen colour display, unlimited data memory with USB port and USB stick.	102	
41200602	TCF 50 SUPER forced air oven, 50 Lt touch screen colour display, unlimited data memory with USB port and USB stick.	104	
41200612	TCF 120 SUPER forced air oven, 120 Lt touch screen colour display, unlimited data memory with USB port and USB stick.	104	
41200622	TCF 200 SUPER forced air oven, 200 Lt touch screen colour display, unlimited data memory with USB port and USB stick.	104	
41200632	TCF 400 SUPER forced air oven, 400 Lt touch screen colour display, unlimited data memory with USB port and USB stick.	104	
41200802	ICF 55 PLUS - forced air incubator 57 Lt	108	
41200812	ICF 120 PLUS - forced air incubator 120 Lt	108	
41200822	ICF 200 PLUS - forced air incubator 200 Lt	108	
41200832	ICF 400 PLUS - forced air incubator 400 Lt	108	
41200902	ICF 55 SUPER forced air incubator 55 Lt, user Management, Activity log, USB stick	108	
41200912	ICF 120 SUPER forced air incubator 120 Lt, unlimited data memory with USB port and USB stick.	108	
41200922	ICF 200 SUPER forced air incubator 200 Lt, unlimited data memory with USB port and USB stick.	108	
41200932	ICF 400 SUPER forced air incubator 400 Lt, unlimited data memory with USB port and USB stick.	108	
41201002	ICN 16 PLUS natural convection incubator 16 Lt	106	
41201012	ICN 35 PLUS natural convection incubator 35 Lt	106	
41201022	ICN 55 PLUS natural convection incubator 55 Lt	106	
41201032	ICN 120 PLUS natural convection incubator 120 Lt	106	
41201042	ICN 200 PLUS natural convection incubator 200 Lt	106	
41201302	ICN 16 SUPER natural convection incubator 16 Lt, touch screen colour display, unlimited data memory with USB port and USB stick.	106	
41201312	ICN 35 SUPER natural convection incubator 35 Lt, touch screen colour display, unlimited data memory with USB port and USB stick.	106	
41201322	ICN 55 SUPER natural convection incubator 55 Lt, touch screen colour display, unlimited data memory with USB port and USB stick.	106	
41201332	ICN 120 SUPER natural convection incubator 120 Lt, touch screen colour display, unlimited data memory with USB port and USB stick.	106	
41201342	ICN 200 SUPER natural convection incubator 200 Lt, touch screen colour display, unlimited data memory with USB port and USB stick.	106	
41201412	CH 150 Climatic chamber 150 Lt	112	
41201422	CH 250 Climatic chamber 250 Lt	113	
41201512	IC 150-R PLUS air forced cooled incubator, with 7 programs x 10 steps 0 °C60 °C, 150 Lt volume, digital controller	110	
41201592	WB 5 waterbath, +5 °C RT100°C, 5 Lt	115	
41201602	WB 12 waterbath, +5 °C RT100°C, 12 Lt	115	
41201612	WB 22 Pump waterbath with recirculation pump, +5 °C RT85°C, 22 Lt	115	
41201622	WB 40 Pump waterbath with recirculation pump, +5 °C RT85°C, 40 Lt	115	
41201712	WB 22 waterbath, +5 °C RT100°C, 22 Lt	115	
41201732	SB 35 waterbath with mechanical shaking electronic speed control(Dubnoff), +5 °C RT85°C, 35 Lt	116	

p/n	DESCRIPTION		NOT
41202012	SKI-4 air forced shaking incubator	96	
41202022	SKI-8 air forced shaking incubator	97	
41202032	SKI-8 R air forced shaking cooling incubator	97	
1202202	CB 5-10 Refrigerated/Heating Circulating bath (working range-10÷100 °C) supplied as standard with PT100 probe	114	
1202212	CB 5-20 Refrigerated/Heating Circulating bath (working range-20+100 °C) supplied as standard with PT100 probe	114	
1202222	CB 5-30 Refrigerated/Heating Circulating bath (working range-30÷100 °C) supplied as standard with PT100 probe	114	
1202402	IC 50-P Peltier incubator 50 Lt	111	
1300203	SS-200 sieve adjustable holder for 5pcs sieve 80mm H or 6 pcs sieve 60mm H ONLY FOR MODEL AU-450	120	
1300253	Concentrate Universal Cleaner 30 ml	120	
1300263	Concentrate Universal Cleaner 500 ml	120	
1300313	CE-6200A Digital ultrasonic cleaner, max capacity 1,4 L NO heating	119	
1300323	DU-06 Digital ultrasonic cleaner, max capacity 0,6 L, NO heating	119	
1300333	DU-32 S Digital ultrasonic cleaner, max capacity 3,2 Lt	119	
1300343	DU-45 S Digital ultrasonic cleaner, max capacity 4,5 Lt	119	
1300353	DU-65 S Digital ultrasonic cleaner, max capacity 6,5 LT	119	
1300363	DU-100 S Digital ultrasonic cleaner, max capacity 10 Lt	119	
1300373	DU-220 S Digital ultrasonic cleaner, max capacity 22 Lt	119	
1300383	DU-450 S Digital ultrasonic cleaner, max capacity 45 Lt	119	
1300403	AU-32 Analogic ultrasonic cleaner, max capacity 3,2 Lt	120	
1300413	AU-65 Analogic ultrasonic cleaner, max capacity 6,5 Lt	120	
1300423	AU-450 Analogic ultrasonic cleaner, max capacity 45 L, Temperature range to 80°C, Timer 1-50 min.	120	
1300433	AU-220 Analogic ultrasonic cleaner, max capacity 22 L, Tank size 500x300x150 (H) mm. Temperature range to 80°C	120	
1300513	Becker support 2 hole - for DU-45	120	
1300533	Becker support 4 hole - for DU-100 and AU-220	120	
1400103	Ozone Generator OZ-10 with timer (10gr/h)	98	
1400203	Ozone Generator OZ-30 with timer (30gr/h)	98	
1500012	FR 110 refrigerator 110 Lt	121	
1500022	FR 110 G refrigerator 110 Lt, glass door	121	
1500032	FR 260 refrigerator 260 Lt	121	
1500042	FR 260 G refrigerator 260 Lt, Glass door	121	
1500102	FRZ 300 Combined fridge-freezer 300 Lt (200 Lt refrigerator + 100 Lt freezer)	122	
1500112	FRZ 300 G Combined fridge-freezer, Glass door, 300 Lt (200 Lt refrigerator + 100 Lt freezer)	122	
1500212	FZ 110 freezer, 110 Lt	124	
1500232	FZ 260 freezer, 260 Lt	124	
1500302	FZ 300-P freezer chest 300 Lt	123	
1500702	Standard shelf	124	
1500712	Bottom shelf compatible with all models	124	
1500722	Overlay kit for 110 Lt	124	
3000003	Replaced Cover with LED	148	
3000013	101, for sugar 0-32% Brix- Standard cover (NO LED)	148	
3000023	102, for sugar 28-62% Brix - Standard cover (NO LED)	148	
3000033	103, for sugar 0-80% Brix-Standard cover (NO LED)	148	
3000043	104, for Honey, 58-92% Sugar-12-27% Water-38-43°Beaumè-Standard cover (NO LED)	148	
3000053	105, Urine, 0-12g/dl Sierum, 1,000-1,050 sg Urine, 1,3330-1,3600 nD Refractive Index - Standard cover (NO LED)	148	
3000063	106, for Salinity 0-28% NaCl - Standard cover(NO LED)	148	
+3000103	101 ATC (Automatic Temperature compensation), for sugar 0-32% Brix-Standard cover (NO LED)	148	
+3000113	106 ATC, for Salinity 0-100% NaCl (Sea water) - Standard cover (NO LED)	148	

p/n	DESCRIPTION		NOTE
43000123	107 ATC, for Wine 0-32% Brix, 0-28 KM/W Babo - Standard cover (NO LED)	148	
43000133	110 ABBE, 1,3000/1,7000 nD - 0,0/95,0 %Brix included digital thermometer	148	
43000153	Replaced digital thermometer for 110 Abbe	148	
43000163	Replaced Standard cover (NO LED)	148	
43000173	414 ATC, for Antifreeze and Battery -50°C-0°C EG Ethilen Glicol, -50°C-0°C PG Propilen Glicol, -40°C-0°C CW	148	
43000193	UREA Refractometer 0-40%	148	
43000203	101 ATC LED (Automatic Temperature compensation), for sugar 0-32% Brix- Cover with LED	148	
43000223	103 LED, for sugar 0-80% Brix-Cover with LED	148	
43000233	107 ATC LED, for Wine 0-32% Brix, 0-28 KM/W Babo - Cover with LED	148	
44000053	DBR SAL Multiscale digital, 0,0-28,0 % Salinity - Temperature 0,0-70,0°C	146	
44000063	DBR 95 Multiscale digital, 0,0-95,0 % Brix, 1,3333-1,5318 nD, 0,0-40,0°C	146	
44000073	DBR 55, Multiscale digital, 0,0-55,0 % Brix, 1,3333-1,4098 nD, 0,0-40,0°C	146	
44000083	DBR Coffee Multiscale digital, 0,0-26,0 % Brix, TDS 0,00-23%, 0,0-70,0°C	147	
44000093	DBR Wine Multiscale digital, 0,0-55,0 % Brix	147	
50000112	Electrode holder with flexible arm mod. 3900	11	
50000112	Power supply for 50 and 60 series	11	
50001132	Integrated magnetical stirrer for 8 serie	5	
50001162	External Keyboard only for 80 serie	4	
50001472	IQ-OQ paper manual for 80 series	4	
50001492	IQ-0Q paper manual for 8 series	5	
50001502	External printer for pH60-C0ND60-PC60 and 8-80 series - Normal Paper	5	
50001512	Power supply 12V/220 Vac for 8 and 80 series	5	
50002002	pH electrode mod. 201 T with temp. 1 mt BNC cable	45	
50002012	NT 55 Temperature probe with 1mt cable and Cinch plug	11	
50002022	pH electrode mod. 201 T/5 temperature sensor inside for pH 7 and pH 70, cable lenght 5 mt BNC/Cinch plug	45	
50002032	NT 55 1mt + cable s7 BNC	33	
50002042	pH electrode 201 T DIN + 2 banana	45	
50002052	pH electrode mod. 201T DIN, range pH 014, temp. 0+60 °C, Cable fix / DIN, with temperature sensor NTC 30	45	
50002072	pH electrode mod. 201 T temperature sensor integrated, cable lenght 3 mt BNC/Cinch plug	45	
50002082	NT 55 Temperature probe with 3mt cable and Cinch plug type NTC 30K	29	
50003352	VPT 1 Cond. Cell C=1 with ATC, glass body, cable lenght 1 mt BNC/Cinch	51	
50003362	EPT 4 PVC-Graphite cell 4 rings C = 0,5	51	
50003372	VPT 10H Cell Glass-Pt C=10+ATC range 100 to 500mS	51	
50003382	EPT1Epoxy body cell C = 1	51	
50004002	Conductivity cell mod. 2301T with ATC, C=1, measuring range 10uS200mS, cable lenght 1 mt BNC/Cinch	51	
50004012	Conductivity cell mod. VPT 01 with ATC, C=0,1, measuring range 0,1uS1mS	51	
50004022	Conductivity cell mod. 2301T/5 with ATC, C=1, measuring range 10µS100mS, cable lenght 5 mt BNC/Cinch	51	
50004062	Conductivity cell mod. VP 1, measuring range 10 µS10 mS, temp. 0+80 °C, Cable fix / BNC, cell constant C= 1.	51	
50004072	Conductivity cell mod. VPT 10, measuring range 100 μS200 mS, temp. 0+80 °C, Cable fix / BNC	51	
50004082	Conductivity cell mod. VPT SOIL for soil conductivity measurement with ATC, C=1, measuring range 10 µS50mS	51	
50004092	Conductivity cell C=1 with built-in temperature sensor, epoxy body, cable 3m. Working range: 10 uS200 mS	51	
50010172	Power supply USB for 70 series	36	
50010242	Polarographic sensor OXY D07/3MT with 3 meter cable, 2 membrane and filling solution (30ml)	35	
50010252	Kit 2 membrane for sensor OXY D07/3MT	35	
50010262	Filling solution for electrode OXY D07/3MT 1x 120ml	35	
50010272	Standard zero (0) Oxygen, single use. Kit of 5 bottle for D07/3MT, LD070/2MT, LD070/10MT	35	
50010282	Plastic armature (PPE) for electrode immersion D07/3MT (to be ordered with 0XY 7)	35	

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p/n	DESCRIPTION		NOT
50010292	Standard zero (0) 0xygen single use 1 bottle for D07/3MT, LD070/2MT, LD070/10MT	35	
50010342	Optical sensor LD070/2MT with 2 meter cable	34	
50010352	Optical sensor LD070/10MT with 10 meter cable	34	
50010362	Replaced membrane LD0 for sensor LD070/2MT and LD070/10MT	34	
50010372	Steel armature for sensor immersion LD070/10MT	34	
50010962	Soft case with shoulder strap in eco-friendly material for portable meters Violine	21	
50010972	IP67 carrying case for REVIO instruments	21	
50011122	NT7P, Penetration measurements, mm 150x4	129	
50011142	NT7L, For measurements in liquids/air, mm 200x3	129	
50014003	pH 1 Tester ECOPACK - 0,1 pH resolution, with ATC (automatic temperature compensation), fix electrode	61	
50014013	pH 1 Tester KIT - 0,1 pH resolution, with ATC (automatic temperature compensation), fix electrode, in carton case	61	
50014053	pH 5 Tester ECOPACK - 0,01 pH resolution, with ATC (automatic temperature compensation)	62	
50014063	pH 5 Tester KIT - 0,01 pH resolution, with ATC (automatic temperature compensation)	62	
50014073	pH 5 Tester only BODY instrument - 0,01 pH resolution, with ATC (automatic temperature compensation)	62	
50014073	pH 5 FOOD Tester KIT - 0,01 pH resolution, with ATC (automatic temperature compensation)	62	
0014113	pH 5 FOOD Tester ECOPACK - 0,01 pH resolution, with ATC (automatic temperature compensation)	62	
0014123	pX 4 Tester KIT - 0,01 pH resolution, ORP(-1000 / + 1900 mV), mV for electrode quality test, ORP	64	
0014143	COND 1 Tester ECOPACK, Cond (0,01 µS200 mS) and TDS (0,01 pm199,9 ppt), with ATC	61	
	COND 1 Tester ECGFACK, Cond (0,01 µS200 mS) and TDS (0,01 ppm199,9 ppt), with ATC	61	
0014163		64	
0014173	pX 4 Tester ECOPACK - 0,01 pH resolution, ORP (-1000 / + 1900 mV), mV for electrode quality test, ORP		
0014203	COND 5 Tester ECOPACK - Cond (0,01 µS200 mS), TDS (0,01 ppm199,9 ppt), Salinity (0,1 mg/l100,0 g/l), °C/°F	63	
0014213	COND 5 Tester KIT - Cond (0,01 µS200 mS), TDS (0,01 ppm199,9 ppt), Salinity (0,1 mg/I100,0 g/I), °C/°F	63	
0014223	COND 5 Tester only BODY instrument - Cond (0,01 µS200 mS), TDS (0,01 ppm199,9 ppt)	63	
0014253	PC 5 Tester ECOPACK - 0,01 pH resolution, mV for electrode quality test, Cond (0,01 µS200 mS), TDS	64	
0014263	PC 5 Tester KIT - 0,01 pH resolution, mV for electrode quality test, Cond (0,01 µS200 mS), TDS	64	
0014293	PC 6 Tester KIT - 0,01 pH resolution, mV for electrode quality test, ORP (-1000 / + 1900 mV)	65	
0014313	ORP 5 Tester KIT - ORP (-1000 / + 1900 mV) with customer calibration point, °C/°F, replaceable sensor	63	
0014403	pH 5 Replacement spare pH electrode for tester pH 5	62	
0014413	COND 5 replacement spare COND sensor for COND 5	63	
0014423	SPH 5 Replacement spare pH electrode with ATC for tester pH 5 F00D	62	
0014433	PC 5 replacement spare PC electrode for PC 5	64	
0014443	ORP 5 replacement spare ORP sensor for ORP 5	63	
0014463	pX 4 Replacement spare pH/ORP sensor for pX 4	64	
0014483	PC 6 Replacement spare pH/ORP/COND sensor for PC 6	65	
0014713	VPT SOIL-COND5 Conductivity cell for soil conductivity measurement with ATC, C=1, measuring range 10 μS50mS	63	
0101002	pH 50 VioLab DHS complete kit included pH electrode 201T with temperature sensor inside and BNC	7	
0101012	pH 50 VioLab DHS without pH electrode. Cable S7/BNC, temperature probe NT55	7	
0101032	pH 50 VioLab DHS complete kit included pH electrode 201T DHS with temperature sensor inside and BNC	7	
0101092	pH 60 VioLab DHS complete kit included pH electrode 201T with temperature sensor inside and BNC	6	
0101102	pH 60 VioLab DHS complete kit included pH electrode 201T DHS with temperature sensor inside and BNC	6	
0101112	pH 60 VioLab DHS without pH electrode. Cable S7/BNC, temperature probe NT55	6	
0101192	pH 8 PRO BASIC with pH electrode XS STANDARD T BNC DHS. Cable S7/BNC, temperature probe NT55	5	
0101202	pH 8 PRO BASIC with pH electrode XS POLYMER. Cable S7/BNC, temperature probe NT55	5	
0101212	pH 8 PRO BASIC without pH electrode. Cable S7/BNC, temperature probe NT55	5	
0101232	pH 8 PRO STIRRER with pH electrode XS POLYMER. Cable S7/BNC, temperature probe NT55	5	
0101242	pH 8 PRO STIRRER without pH electrode. Cable S7/BNC, temperature probe NT55	5	
50101252	pH 8 PRO STIRRER with pH electrode XS STANDARD T BNC DHS. Cable S7/BNC, temperature probe NT55	5	

p/n	DESCRIPTION		NOTE
50101392	pH 80 PRO STIRRER with pH electrode XS STANDARD T BNC DHS, cable S7/BNC, temperature probe NT55	4	
50101402	pH 80 PRO STIRRER with pH electrode XS STANDARD, temperature probe NT55, S7/BNC 1 m cable	4	
50101412	pH 80 PRO STIRRER without pH electrode. Cable S7/BNC, temperature probe NT55	4	
50101422	pH 80 PR0 BASIC with pH electrode XS STANDARD, temperature probe NT55, S7/BNC 1 m cable	4	
50101432	pH 80 PR0 BASIC without pH electrode. Cable S7/BNC, temperature probe NT55	4	
50101442	pH 80 PRO BASIC with pH electrode XS STANDARD T BNC DHS, cable S7/BNC, temperature probe NT55	4	
50103002	COND 50 VioLab complete kit include cond. cell 2301T with ATC, cable length 1m. Cell holder	17	
50103012	COND 50 VioLab without conductivity cell. standard calibration solutions 1413 µS and 12,88 mS, cell holder	17	
50103072	COND 60 VioLab complete kit include cond. cell 2301T with ATC, cable length 1m. Cell holder	16	
50103082	COND 60 VioLab without conductivity Cell. standard calibration solutions 1413 µS and 12,88 Ms	16	
50103202	COND 8 PRO BASIC with conductivity cell 2301T. Standard solution 1413 µS and 12,88 mS, cell holder	15	
50103202	COND 8 PRO BASIC without conductivity cell. Standard solution 1413 µS and 12,88 mS, cell holder	15	
50103212	COND 8 PROSTIRRER with conductivity cell 2301T. Standard solution 1413 µS and 12,88 mS	15	
50103232	COND 8 PRO STIRRER without conductivity cell. Standard solution 1413 µS and 12,88 mS	15	
50103392	COND 80 PRO STIRRER with conductivity 4-ring cell EPT 4	14	
50103402	COND 80 PRO STIRRER with conductivity cell Glass-Pt VPT80/1, standard solution 1413 µS and 12,88 mS	14	
50103412	COND 80 PRO STIRRER without conductivity cell. Standard solution 1413 µS and 12,88 mS	14	
50103422	COND 80 PRO BASIC with conductivity cell Glass-Pt VPT80/1, standard solution 1413 µS and 12,88 mS	14	
50103432	COND 80 PRO BASIC without conductivity cell. Standard solution 1413 µS and 12,88 mS	14	
50103442	COND 80 PRO BASIC with conductivity 4-ring cell EPT 4	14	
50103892	PC 50 VioLab DHS complete kit with pH electrode 201T DHS with temperature sensor inside, conductivity cell	27	
50103902	PC 50 VioLab DHS complete kit with pH electrode 201T with temperature sensor inside, conductivity cell	27	
50103912	PC 50 VioLab DHS without pH electrode, included S7/BNC cable, temperature probe NT 55, conductivity cell	27	
50103942	PC 60 VioLab DHS complete kit with pH electrode 201T DHS with temperature sensor inside	26	
50103952	PC 60 VioLab DHS complete kit with pH electrode 201T with temperature sensor inside, conductivity cell	26	
50103972	PC 60 VioLab DHS without pH electrode, included S7/BNC cable, temperature probe NT 55, conductivity cell	26	
50104132	PC 8 PRO STIRRER with pH electrode XS STANDARD T BNC DHS, conductivity cell 2301T with ATC.	25	
50104142	PC 8 PRO STIRRER with pH electrode XS Polymer, conductivity cell 2301T with ATC. Cable S7/BNC	25	
50104152	PC 8 PRO STIRRER without pH electrode, with cond. cell 2301T. Cable S7/BNC, temperature probe NT55	25	
50104162	PC 8 PRO STIRRER with pH electrode XS Polymer, without cond. cell. Cable S7/BNC. Temp. probe NT55	25	
50104172	PC 8 PRO_STIRRER without pH electrode and cond. cell. Cable S7/BNC, temperature probe NT55	25	
50104232	PC 80 PRO STIRRER with pH electrode XS STANDARD T BNC DHS, cable S7/BNC, temperature probe NT55	24	
50104242	PC 80 PRO STIRRER with pH electrode XS STANDARD S7, 1 mt cable S7/BNC, temperature probe NT55	24	
50104252	PC 80 PRO STIRRER without pH electrode, with cond. cell glass VPT 80/1. Cable S7/BNC, temp. probe NT55	24	
50104262	PC 80 PRO STIRRER with pH electrode XS STANDARD S7, without cond. cell. Cable 1 mt cable S7/BNC	24	
50104272	PC 80 PRO STIRRER without pH electrode and cond. cell. Cable S7/BNC, temperature probe NT55	24	
50104282	PC 80 PRO STIRRER with pH XS Standard and conductivity 4-rings cell EPT 4	24	
50104292	PC 80 PRO STIRRER without pH electrode and conductivity 4-rings cell EPT 4	24	
50104302	PC 80 PRO STIRRER with pH XS Standard DHS and conductivity 4-rings cell EPT 4	24	
50110012	pH 7 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside	9	
50110022	pH 7 Vio DHS kit without pH electrode with temperature probe NT 55, BNC/S7 1mt cable, colored pH buffer	9	
50110032	pH 7 Vio DHS F00D complete kit included pH spear electrode 2 Pore T with temperature sensor inside	9	
50110062	pH 7 Vio DHS complete kit included pH GEL electrode plastic body 1 mt. cable with BNC.	9	
50110072	pH 7 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside	9	
50110082	pH 7 Vio DHS F00D complete kit included pH spear electrode 2 Pore T DHS with temperature sensor inside	9	
50110112	pH 70 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside	8	
50110122	pH 70 Vio DHS kit without pH electrode with temperature probe NT 55, BNC/S7 1mt cable, colored pH buffer	8	

p/n	DESCRIPTION	NO.
50110162	pH 70 Vio DHS FOOD complete kit included pH spear electrode 2 Pore T with temperature sensor inside	8
50110172	power supply and cable	11
50110182	pH 70 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside	8
50110192	pH 70 Vio DHS FOOD complete kit included pH spear electrode 2 Pore T DHS with temperature sensor inside	8
50110202	Oxy 7 Vio with polarographic sensor OXY D07/MT with 3 mt cable, 1 bottle 0 Oxygen standar	35
50110212	Oxy 7 Vio ECO only meter, without probe in carton box ECOpack	35
50110252	Magnetical support for Vio portable instruments	21
50110302	Oxy 70 Vio with optical Oxygen sensor LDO70/2MT with 2 mt cable. 1 bottle 0 Oxygen standard, power supply	34
50110312	Oxy 70 Vio with optical Oxygen sensor LDO70/10MT with 10 mt cable. 1 bottle 0 Oxygen standard, power supply	34
50110412	COND 7 Vio with TDS complete kit included cond. cell 2301 T with ATC, cable lenght 1mt with BNC/Cinch plug	19
50110422	COND 7 Vio with TDS without conductivity cell, standard calibration solution, carrying case and accessories.	19
50110512	COND 70 Vio complete kit included cond. cell 2301 T with ATC, cable lenght 1mt with BNC/Cinch plug	18
50110522	COND 70 Vio without conductivity cell, standard calibration solution, power supply, software PC-Link	18
50110712	PC 7 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside	31
50110722	PC 7 Vio DHS without pH electrode, included conductivity cell 2301 T with ATC, cable length 1mt with BNC/Cinch	31
50110742	PC 7 Vio DHS without sensors	31
50110752	PC 7 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside	31
50110812	PC 70 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside	30
50110822	PC 70 Vio DHS without pH electrode, included conductivity cell 2301 T with ATC, cable lenght 1mt with BNC	30
50110842	PC 70 Vio without sensors	30
50110872	PC 70 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside a	30
50110912	REVIO DHS kit portable multiparameter included with sensors pH/EC/DO	29
50110922	REVIO DHS kit portable multiparameter included with sensors pH/D0 without EC cell	29
50110932	REVIO DHS kit portable multiparameter without sensors pH/EC/D0	29
50110942	REVIO DHS kit portable multiparameter included with sensors EC/D0, without pH electrode	29
50110952	REVIO DHS kit portable multiparameter with 201T DHS, EC and DO sensors	29
50110982	REVIO DHS kit in soft case	29
50110992	REVIO DHS kit portable multiparameter with electrode, conductivity cell, without polarographic sensor	29
50111012	XS Temp 7 Vio portable thermometer for PT 100 RTD probe.	128
50111032	XS Temp 7 Vio K/T portable thermometer for thermocouple T and K probe.	130
50111052	XS Temp 7 Vio NTC portable thermometer for NTC probe.	129
50111062	XS Temp 7 Vio NTC KIT L portable thermometer for NTC probe.	129
50111082	XS Temp 70 Vio Portable thermometer data logger for 2 PT 100 RTD probes.	128
50111092	XS Temp 7 Vio NTC KIT P portable thermometer for NTC probe.	129
50111212	XS Temp 74 Vio	127
50111252	XS Temp 74 Vio kit	127
50111312	PX Vio simulator in suitcase	12
50111322	PX Vio simulator complete with 4 cables	12
51000202	PT56L	132
51000212	PT56C, For contact measurements, mm 200x5	132
51000222	PT56P, Penetration measurements, mm150x4	132
51000232	PT56A, For measurement in air, mm200x4	132
51000242	PT56L 1/5 DIN, For measurements in liquids, mm 200x3	132
51000252	PT56 TFE, Teflon cable ideal for oven and freezer, mm 100x4	132
51000262	PT56/500, For measurements in liquids, mm 500x6	132
51000272	PT56/1000, For measurements in liquids, mm 1000x6	132

p/n	DESCRIPTION		NOTE
51000292	PT 56 TFE 1/5 DIN for measurements in liquids and air 100 x 4mm	132	
51000752	3K220, For measurements in liquids/air, mm 200x2	133	
51000762	3K320, mm 200x3	133	
51000772	3K350, mm 500x3	133	
51000782	3K6100, mineral oxide folding probe, mm 1000x6	133	
51000792	3K650, mineral oxide folding probe, mm 500x6	133	
51000802	3K520C, For contact measurements , mm200x5	133	
51000812	3K1200, Wire manipulable probe, mm 2000x2	133	
51000822	3K6120, mineral oxide folding probe, mm 1200x6	133	
51000832	3K415P, Penetration measurements, mm150x4	133	
51000902	3T320, For measurements in liquids/air, mm 200x3	134	
51000912	3T415, Penetration measurements, mm150x4	134	
51000922	3T520C, For contact measurements , mm200x5	134	
51000932	3T420A, For measurement in air, mm200x4	134	
51000942	3T215, Penetration measurements, mm150x2	134	
51000952	3T210, Ideal for oven and freezer, mm 100x2,5	134	
51000332	REDOX combined electrode, cable lenght 3 m.	29	
51100033	1x250 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate	56	
51100043	1x250 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate	56	
51100053	1x250 ml XS buffer solution pH 9,00 \pm 0,02 $/$ 25 $^{\circ}$ C blue color with N.I.S.T certificate	56	
51100063	1x250 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T. certificate	56	
51100073	1x250 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate	56	
51100073	1x500 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate	56	
51100133	1x500 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate	56	
51100143	1x500 ml XS buffer solution pH 9,00 ± 0,017 25 °C blue color with N.I.S.T certificate	56	
51100163	1x500 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T. certificate	56	
51100103	1x500 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate	56	
51100233	1x5Lt XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate	56	
51100243	1x5Lt XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate	56	
51100243	1x5Lt XS buffer solution pH 9,00 ± 0,02 / 25°C blue color with N.I.S.T certificate	56	
51100263	1x5Lt XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T certificate	56	
51100203	1x5Lt XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate	56	
51100273	1x250 ml XS Redox/ORP 200 mV ± 5mV / 25°C (dark bottle)	57	
51100303	1x250 ml XS Redox/ORP 475 mV ± 5mV / 25°C	57	
51100313	1x500 ml XS Redox/ORP 475 mV ± 5mV / 25°C	57	
51100323	1x5Lt XS Redox/ORP 650 mV ± 5mV / 25°C (Politainer Cubibox)	57	
51100503	1x300 ml XS Conductivity Standard 1,3 µS/cm ± 0,1 / 25°C glass bottle with N.I.S.T certificate	57	
51100503	1x300 ml XS Conductivity Standard 5 µS/cm ± 0,17 25 °C glass bottle with N.I.S.T certificate	57	
51100513	1x500 ml XS Conductivity Standard 84 µS/cm ± 1% / 25°C with N.I.S.T certificate	57	
51100613	1x500 ml XS Conductivity Standard 147 µS/cm ± 1% / 25°C with N.I.S.T certificate	57	
51100623	1x500 ml XS Conductivity Standard 14/7 µS/cm ± 1% / 25°C with N.I.S.T certificate	57	
		57	
51100643	1x500 ml XS Conductivity Standard 12'880 µS/cm ± 1% / 25°C with N.I.S.T certificate		
51102013	1x20 SACHET 25ml pH 4,01 ± 0,01 / 25°C (red), with Certificate of Analysis 1x20 SACHET 25ml pH 7,00 ± 0,01 / 25°C (green), with Certificate of Analysis	55	
51102023		55	
51102043	1x20 SACHET 25ml pH 10,01 ± 0,02 / 25°C (yellow), with Certificate of Analysis		
51102053	1x20 SACHET 25ml EC 1413 µS/cm ± 1% / 25°C, with Certificate of Analysis	55	
51102063	1x20 SACHET 25ml EC 12880 μS/cm ± 1% / 25°C, with Certificate of Analysis	55	

p/n	DESCRIPTION		NOTE
51102083	1x20 SACHET 10ml STORAGE Solution for pH/ORP sensor	55	NOTE
51102093	1x20 SACHET 25ml Distilled Water	55	
51102203	Set CAL pH BIS 1x20 SACHET 25ml (10 x pH 4.01/7.00)	55	
51102213	Set CAL pH TRIS 1x20 SACHET 25ml (7 x pH 4.01/7.00 + 6 x pH 10.01)	55	
51102223	Set CAL COND 1x20 SACHET 25ml (10 x EC 1413/12880 μS/cm)	55	
51102233	Set CAL PC 1x20 SACHET 25ml (7 x pH 4.01/7.00 + 6 x EC 1413 µS/cm)	55	
51102243	Set REFILL pack for pH 1x20 SACHET 25ml (6 x pH 4.01/7.01/H20 + 2 x Storage 10ml)	55	
51102253	Set REFILL pack for COND 1x20 SACHET 25ml (7 x EC 1413/12880 μS/cm + 6 x H20)	55	
51102263	Set REFILL pack for PC 1x20 SACHET 25ml (5 x pH 4.01/7.01/EC 1413 µS/cm + 3 x H20 + 2 x Storage 10ml)	55	
51300003	1x250 ml XS buffer solution pH 4,01 \pm 0,01 / 25°C red color with DAKKS certificate	54	
51300013	1x250 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with DAKKS certificate	54	
51300023	1x250 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with DAKKS certificate	54	
51300033	1x250 ml XS buffer solution pH 10,01 ± 0,02 / 25°C yellow with DAKKS certificate	54	
51300103	$1x500$ ml XS buffer solution pH 4,01 \pm 0,01 / 25°C red color with DAKKS certificate	54	
51300113	1x500 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with DAKKS certificate	54	
51300123	1x500 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with DAKKS certificate	54	
51300133	1x500 ml XS buffer solution pH 10,01 ± 0,02 / 25°C yellow with DAKKS certificate	54	
51300303	1x300 ml XS Conductivity Standard 1,3 μS/cm ± 0,1 / 25°C glass bottle with DFM certificate	54	
51300313	1x300 ml XS Conductivity Standard 5 µS/cm ± 0,1 / 25°C glass bottle with DFM certificate	54	
51300323	1x500 ml XS Conductivity Standard 84 µS/cm ± 1% / 25°C with DFM certificate	54	
51300333	1x500 ml XS Conductivity Standard 147 μS/cm ± 1% / 25°C with DFM certificate	54	
51300343	1x500 ml XS Conductivity Standard 1413 µS/cm ± 1% / 25°C with DFM certificate	54	
51300353	1x500 ml XS Conductivity Standard 12'880 µS/cm ± 1% / 25°C with DFM certificate	54	
52000302	UR 100 Thermohygrometer	136	
60000423	$1x55$ ml XS buffer solution 1413 μ S/cm \pm 1% / 25° C colourless, without certificate	55	
60000433	1x55 ml XS buffer solution 12'880 µS/cm ± 1% / 25°C colourless, without certificate	55	
60000613	1x55 ml XS buffer solution 84 µS/cm ± 1% / 25°C colourless, without certificate	55	
70100503	mini T Temperature datalogger	135	
70100513	mini T1 Temperature datalogger	135	
70100523	mini TH Temperature and humidity datalogger	135	
70100533	mini TB with rpobe	135	
70101003	mini 1way Single trip temperature datalogger programmable on request (pack of 10 pcs)	135	
70101013	mini 1way Single trip temperature datalogger (pack of 10 pcs)	135	
70101043	mini 1way LCD (pack of 10 pcs)	135	
70109993	DBAT mini replacement batteries	135	