

MULTIPARAMETER



PORTABLE INSTRUMENTS **WARRANTY 5 YEARS**

BENCHTOP INSTRUMENTS **WARRANTY 3 YEARS**



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



HOW TO CHOOSE

	Violab PC50	Violab PC 60	PC 8+	PC 80+
pH Resolution	0,01 pH	0,01 pH	0,01 pH	0,001 pH
ION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
COND e TDS	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Salinity	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Resistivity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Ultra pure water compensation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Display	colour backlit LCD	colour backlit LCD	colour graphic	colour graphic
Analogic view	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
GLP Calibration	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Calibration password	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Calibrations points	3	3	3	5
Calibration due alarm	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Electrode status indication	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Data logger	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
PC / Printer connection	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Multilanguage	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Online guide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
External keyboard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

PC 80+ DHS

- Resolution 0,1 / 0,01 / 0,001 pH - 0,01 μ S
- Backlit coloured high-definition **graphic display**.
- Data logger** auto and manual, up to **1000 savings in GLP**
- On line guide** multilanguage
- Alphanumeric **password**
- Graphic **calibration report**

MAIN FEATURES

Simultaneous view of pH/COND and temperature.

Automatic calibration up to 5 pH points according GLP with date and time. IP54 keyboard.

Selectable buffers NIST, USA, DIN or custom (5 values). ISE calibration up to 5 points.

Calibration report and innovative graphic view of the status of the sensor.

Calibration points indications.

Automatic and manual EC calibration with 4 standard recognition (84; 1413 μ S, 12,88 and 111,8 mS) up to 4 points with calculation of the different cell constants and a standard defined by the user.

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

Linear temperature coefficient (0,00...10,00%) and non linear for ultra pure water. Selectable cell constant (C = 0,1-1-10,0).

Calibration points indications.

Intuitive menu. **Multilanguage menu**.

Entering company data, operator ID, sample ID and sensor ID via external keyboard (included).

Functions for setting alarms and analog format, "Hold reading" and "Stability" with titration and timed stability mode for ISE.

Calibration due alarm, self-diagnosis messages.

Alphanumeric password for calibration management and memory reset.

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

Magnetic stirrer with independent control. Quick manual online.

Data Link software freely downloadable from www.xsinstruments.com.

Measuring range:

pH: -2,000...20,000 (0,001 pH)

mV: -2000...+2000 (0,1 mV)

ISE: 0.001...19999 ppm

Cond: 0,0 μ S ...1000 mS (0,1 μ S - automatic)

Resistivity: 1 Ω ...10 M Ω

Salinity: 0,01...100,0 ppt

TDS: 0,1 mg/l...500,0 g/l

Temperature: -20...120,0 °C (0,1 °C)



Equipped with:

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

Name	Description	p/n
PC 80+DHS STIRRER	Complete with pH XS Standard DHS, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed.	50004232
PC 80+DHS STIRRER	Complete with pH XS Standard, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed.	50004242
PC 80+DHS STIRRER	Without pH electrode, conductivity cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed.	50004252
PC 80+DHS STIRRER	With pH electrode XS Standard, without conductivity cell, magnetic stirrer with adjustable speed.	50004262
PC 80+DHS STIRRER	Without pH electrode, without conductivity cell, with magnetic stirrer with adjustable speed.	50004272

PC 8 + DHS

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

MAIN FEATURES

Digital bench multi parameter pH, mV, COND, TDS, Salinity, temperature. IP54 keyboard.

Simultaneous display of pH / COND and Temperature.

Automatic pH calibration from 1 to 3 points according to GLP with date and time.

Selectable buffer NIST, USA or custom (2 values).

Calibration report and innovative graphic view.

Calibrated points indication.

Automatic and manual conductivity calibration with recognition of 4 standards (84; 1413 μS, 12.88 and 111,8 mS) from 1 to 4 points with calculation of the different cell constants and a standard defined by the user.

Automatic scale, Reference temperature (15... 30 °C),

Linear temperature coefficient (0.00 ... 10.00%), selectable cell constant (C = 0.1- 1- 10.0) .

Calibrated points indication.

Manual and automatic **Data Logger** function, **up to 1000 savings with date / time according to GLP**.

Intuitive parameter management via icons. Multilanguage menu.

Functions for setting alarms and displaying in analog format, "Hold-reading" and "Stability" with titration mode, calibration due alarm, self-diagnosis messages.

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

Numeric password for calibration management and memory deletion. Magnetic stirrer with independent control.

Data Link software freely downloadable from www.xsinstruments.com.

Measuring range:

pH: -2,00...16,00 (0,01 pH)

mV: -2000...+2000 (0,1 mV)

Temperature: -10...110,0 °C (0,1 °C)

Cond: 0,0 μS ...200 mS (automatic)

Salinity: 0,01...100,0 ppt

TDS: 0,1 mg/l...100,0 g/l

Equipped with:

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



PC

Name	Description	p/n
PC 8 + DHS STIRRER	Complete with pH XS Standard DHS, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed.	50004132
PC 8 + DHS STIRRER	Complete with pH XS Standard, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed.	50004142
PC 8 + DHS STIRRER	Without pH electrode, conductivity cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed.	50004152
PC 8 + DHS STIRRER	With pH electrode XS Polymer, without conductivity cell, magnetic stirrer with adjustable speed.	50004162
PC 8 + DHS STIRRER	Without pH electrode, and without conductivity cell, with magnetic stirrer with adjustable speed.	50004172

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+ e 80+ Series, complete with electrode holder and connecting cable	50001132
IQ-OQ MANUAL 8 SERIES	Paper IQ-OQ manual for XS 8 Series	50001472

PC 60 Violab

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



MAIN FEATURES

Professional bench meters 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.

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

Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell constant (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 from www.xsinstruments.com.

RS 232 external **printer connection**



Measuring range:

pH: -2,00...16,00 (0,01 pH)

mV: -1000...+1999 mV (0,1 mV)

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

Salinity: 0,1 ppm ... 100 ppt

TDS: 0,01 mg/l...200,0 g/l

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 ANALOGUE 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), accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode	50103972

PC 50 *Violab*

- Resolution 0,1 / 0,01 pH - 0,01 μ S
- Automatic and manual **temperature compensation**
- DHS digital sensors management.

MAIN FEATURES

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

Automatic ORP calibration on 1 point.

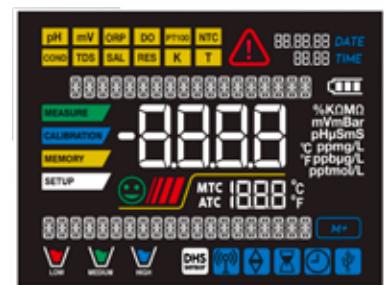
Automatic conductivity calibration up to 4 points (84; 147; 1413 μ S e 12,88; 111,8 mS) and 1 point custom.

Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell constant (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.



Coloured backlit LCD display

Measuring range:

- pH: 0,00...14,00 (0,01 pH)
- mV: -1000...+1000 (0,1 mV)
- Cond: 0,0 μ S ...200 mS (0,01 μ S - automatic)
- TDS: 0,01 mg/l...200,0 g/l
- Temperature: 0...100,0 °C (0,1 °C).

Equipped with:

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

Name	Description	p/n
PC 50 VIOLAB DHS ELECTRODE + 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), accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode	50103912

PC ACCESSORIES

pH ELECTRODES

Name	Description	p/n
XS STANDARD 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 0...14 - Temperature -10...100 °C	32200123
XS STANDARD PH ELECTRODE	pH Electrode combined with S7 head. Glass body, for general use. Refillable KCl 3M Electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...100 °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 0...14 - Temperature -10...80 °C	32200223
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
201 T PH ELECTRODE	Combined pH electrode with NTC temperature sensor integrated. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C	50002002
201 T / 5 PH ELECTRODE	Combined pH electrode with NTC temperature sensor integrated. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 5 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C	50002022

CONDUCTIVITY CELLS

Name	Description	p/n
VP 1 EC CELL	Cell in glass body with platinum plates C=1, fixed cable 1 mt. with BNC plug. Measuring range: 10µS...10 mS - Temperature 0...80 °C	50004062
VPT 1 EC CELL	Cell in glass body with platinum plates C=1, with temperature sensor integrated. Fixed cable 1 mt., BNC + RCA Cinch plug. Measuring range: 10µS...100 mS - Temperature 0...80 °C	50003352
VPT 01 EC CELL	Steel and PVC cell, C=0,1, with temperature sensor integrated. Fixed cable 1 mt., BNC + RCA plug. Measuring range: 0,1µS...1 mS - Temperature 0...60 °C	50004012
VPT 10 EC CELL	Cell in glass body with platinum plates C=10, temperature sensor integrated, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...200 mS..	50004072
VPT 10 H EC CELL	Cell in glass body with platinum plates C=10, temperature sensor integrated, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...500 mS. Only for XS COND 80+	50003372
2301 T EC CELL	Cell in epoxy body C=1, with temperature sensor integrated. Fixed cable 1 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS - Temperature 0...60 °C	50004002
2301 T / 5 EC CELL	Cell in epoxy body C=1, with temperature sensor integrated. Fixed cable 5 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS - Temperature 0...60 °C	50004022