# pH METERS

XS INSTRUMENTS

PORTABLE INSTRUMENTS — WARRANTY **5** YEARS

BENCHTOP INSTRUMENTS — WARRANTY **3** YEARS

CE

MADE IN ITALY
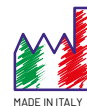
COMPANY WITH QUALITY MANAGEMENT SYSTEM
**UNI EN ISO 9001:2015**
CERTIFIED BY CERTIQUALITY

## HOW TO CHOOSE

| | Violab pH 50 | Violab pH 60 | pH 8+ | pH 80+ |
|---|---|---|---|---|
| Resolution | 0,01 pH | 0,01 pH | 0,01 pH | 0,001 pH |
| Display | coloured LCD | coloured LCD | Coloured graphic | Coloured graphic |
| GLP | ○ | ● | ● | ● |
| Calibration password | ○ | ○ | ● | ● |
| Calibration points | 3 | 3 | 3 | 5 |
| Calibration due alarm | ○ | ● | ● | ● |
| Electrode status indication | ○ | ○ | ● | ● |
| Selective ION | ○ | ○ | ○ | ● |
| Data logger | ○ | ● | ● | ● |
| PC / Printer connection | ○ | ● | ● | ● |
| Analog view | ○ | ○ | ● | ● |
| Alarm settings | ○ | ○ | ● | ● |
| Multilanguage | ○ | ○ | ● | ● |
| On-Line manual | ○ | ○ | ○ | ● |
| External keyboard | ○ | ○ | ○ | ● |

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# pH 80 + DHS

○ **Resolution** *0,1 / 0,01 / 0,001 pH*
○ 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

**Automatic calibration up to 5 pH points** according GLP with date and time.
**IP54** keyboard**.**
Selectable buffer solutions 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.
Intuitive menu. **Multilanguage menu.**
Entering company data, operator ID, sample ID and sensor ID via external keyboard (included).
Functions for setting alarms and analog view, "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...19999ppm
**Temperature:** –20...120,0 °C (0,1 °C)

**Equipped with:**
S7/BNC cable, temperature sensor NT 55, electrode holder, buffers oslutions, USB cable and power supply.

| Name | Description | p/n |
|---|---|---|
| **pH 80+DHS** **STIRRER** | Complete with **digital electrode XS Standard DHS, magnetic stirrer with adjustable speed** | 50001392 |
| **pH 80+DHS** **STIRRER** | Complete with **electrode XS Standard, magnetic stirrer with adjustable speed** | 50001402 |
| **pH 80+DHS** **STIRRER** | Without electrode, with **magnetic stirrer with adjustable speed** | 50001412 |
| **pH 80+DHS** **BASIC** | **Complete** with **digital electrode XS Standard DHS,** without magnetic stirrer | 50001442 |
| **pH 80+DHS** **BASIC** | **Complete with electrode XS Standard S7,** without magnetic stirrer | 50001422 |
| **pH 80+DHS** **BASIC** | Without electrode and magnetic stirrer | 50001432 |
| **KEYBOARD** | External soft keyboard with USB cable for 80+ Series | 50001462 |
| **IQ-OQ MANUAL** **80 SERIES** | Printed manual IQ-OQ for **XS 80** Series | 50001472 |

# *pH 8 + DHS*

○ **Resolution** *0,1 / 0,01 pH*
○ 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 for **pH, mV, ORP and temperature.**
IP54 keyboard.
**Automatic pH calibration** from 1 to 3 points according to **GLP** with date and time.
Selectable buffer solutions NIST, USA and user definable (2 values).
**Calibration report and innovative graphic view**.
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 analog view,
"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:** –1000...+1900 (0,1 mV)
**Temperature:** -10...110,0 °C (0,1 °C)

**Equipped with:**
S7/BNC cable, temperature sensor NT 55, electrode holder, buffers oslutions, USB cable and power supply.

| Name | Description | p/n |
|---|---|---|
| **pH 8 + DHS** STIRRER | Complete with **digital electrode XS Standard DHS, magnetic stirrer with adjustable speed** | 50001252 |
| **pH 8 + DHS** STIRRER | Complete with **electrode XS Standard, magnetic stirrer with adjustable speed** | 50001232 |
| **pH 8 + DHS** STIRRER | Without electrode, with **magnetic stirrer with adjustable speed** | 50001242 |
| **pH 8 + DHS** BASIC | Complete with **digital electrode XS Standard DHS,** without magnetic stirrer | 50001192 |
| **pH 8 + DHS** BASIC | Complete with **electrode XS Polymer,** without magnetic stirrer | 50001202 |
| **pH 8 + DHS** BASIC | Without electrode and magnetic stirrer | 50001212 |
| **MANUAL IQ-OQ** 8 SERIES | Printed manual IQ-OQ for **XS 8+ Series** | 50001472 |

## ACCESSORIES 8 / 80 SERIES

| 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+ e 80+ series | 50001512 |

# pH 60 VioLab

**pH**

- ○ **Resolution** *0,1 / 0,01 pH*
- ○ Automatic and manual **temperature compensation**
- ○ Coloured backlit high definition **LCD display**
- ○ **Data logger** auto and manual , **up to 1000 savings** *in GLP*
- ○ **Automatic calibration up to 3 points**
- ○ **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.
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 (0,1 - 0,01 pH)
mV: –1000...+1999 (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 201 T DHS,** with temperature sensor integrated | 50101102 |
| **pH 60 VIOLAB** ANALOG ELECTRODE | Complete with **electrode XS 201 T**, with temperature sensor integrated | 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 |

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# pH 50 VioLab

- ○ **Resolution** *0,1 / 0,01 pH*
- ○ Automatic and manual **temperature compensation**
- ○ Coloured backlit high definition **LCD display**
- ○ **Automatic calibration up to 3 points**
- ○ **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.
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 (0,1 - 0,01 pH)
**mV:** ±1000 (1 mV)
**Temperature**: 0...100,0 °C (0,1 °C)

Coloured LCD Display

**Equipped with:**
Electrode holder stand, pH buffer solutions, and instructions for use.

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

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# ACCESSORIES pH

**pH**

## pH ELECTRODES

| Name | Description | p/n |
|------|-------------|-----|
| **XS STANDARD DHS**<br>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.**<br>Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature -10...100 °C** | 32200123 |
| **XS STANDARD**<br>PH ELECTRODE | pH Electrode combined with S7 head. Glass body, for general use. Refillable KCl 3M Electrolyte. **Excellent chemical resistance and easy to clean.**<br>**With serial number and certificate.**<br>Dimensions (LxØ mm) 120x 12 - **pH 0...14 - Temperature -10...100 °C.** | 32200363 |
| **XS POLYMER**<br>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.<br>Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature -10...80 °C** | 32200223 |
| **201 T DHS**<br>DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology.<br>Plastic body for general use. Gel Filling, ceramic diaphragm. Maintenance-free.<br>Dimensions (LxØ) mm 120x12. **pH 0...14 - Temperature 0...60 °C** | 32200103 |
| **201 T**<br>PH ELECTRODE | Combined pH electrode with NTC temperature sensor integrated.<br>Epoxy body for general applications. Polymer filling with ceramic diaphragm.<br>Maintenance-free. Fixed cable 1 mt., BNC + RCA plug.<br>Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature 0...60 °C** | 50002002 |
| **201 T / 5**<br>PH ELECTRODE | Combined pH electrode with NTC temperature sensor integrated.<br>Epoxy body for general applications. Polymer filling with ceramic diaphragm.<br>Maintenance-free. Fixed cable 5 mt., BNC + RCA plug.<br>Dimensions (LxØ) mm 120x12 - **pH 0...14 - Temperature 0...60 °C** | 50002022 |
| **XS 2 PORE DHS**<br>DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Glass Body.<br>Filled with polymer, maintenance-free.**Penetration tip, Ideal for meats and cheese samples.**<br>Dimensions (LxØ) mm 35x6 - **pH 0...14, Temperature 0...60 °C** | 32200113 |
| **XS 2 PORE T**<br>BNC + RCA | Glass Body. Filled with polymer, maintenance-free.<br>With temperature sensor integrated NTC 30 KΩ,<br>**Penetration tip. Ideal for meats and cheese samples**<br>Fixed cable 1 mt length, **pH 0...14, Temperature 0...60 °C** | 32200323 |
| **pH GEL**<br>ELECTRODE | Plastic body. For XS 7 / 70 Vio Series. Cable lenght 1 m, BNC plug.<br>**pH 0...14, Temperature 0...60 °C** | 32105223 |

## REDOX ELECTRODES

| Name | Description | p/n |
|------|-------------|-----|
| **REDOX**<br>ELECTRODE REDOX | Fix cable **1 m**, BNC connector, epoxy body.<br>Gel filling, double junction, maintenance-free. Ceramic diaphragm.<br>**Range ± 1.000 mV, Temperature 0...60 °C.** Dimensions (LxØ) 120 x 12 mm | 32105302 |
| **REDOX / 5**<br>ELECTRODE REDOX | Fix cable **5 m**, BNC connector, epoxy body.<br>Gel filling, double junction, maintenance-free. Ceramic diaphragm.<br>**Range ± 1.000 mV, Temperature 0...60 °C.** Dimensions (LxØ) 120 x 12 mm | 32105102 |

## CONNECTING CABLE

Connecting cable with **S7 head** and BNC plug for XS pH-meter.
**Diameter 3 mm, lenght 1 m.**

| Name | Description | | p/n |
|------|-------------|---|-----|
| **BNC** | Cable S7-BNC |  | 33551733 |

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## STORAGE SOLUTION

| Name | Pack | p/n |
|---|---|---|
| Storage solutions for electrodes | 55 ml | 32208043 |
| Storage solutions for electrodes | 500 ml | 32208053 |

## TEMPERATURE SENSORS

| | | |
|---|---|---|
| **NT 55** TEMPERATURE SENSOR | Temperature sensor NTC 30 K for XS instruments, **for liquids and air.** | 50002012 |
| **NT 7P** TEMPERATURE SENSOR | Temperature sensor NTC 30 K, **penetration tip**, diameter 4 mm, cable fix 1m | 50011122 |

## ACCESSORIES

| Name | Description | | p/n |
|---|---|---|---|
| **ST 10** MAGNETIC STIRRER | **Magnetic stirrer, adjustable speed,** with rechargeable batteries, magnetic bar and power supply. |  | 50000132 |
| **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** VIO - PORTABLE | Power supply and cable for XS Vio portable series |  | 50110172 |
| **POWER SUPPLY** VIOLAB - BENCHTOP | Power supply and cable for XS VioLab benchtop series |  | 50001052 |

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## STANDARD BUFFER SOLUTION
With **certificate of analysis** downloadable from www.xsinstruments.com

### ○ SACHETS **25 ml**

| 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 |
| **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 |
| **STORAGE** | Pack of 20 sachets 10 ml, pH/ORP Sensor Storage Solution | 51102083 |
| **H2O** | Pack of 20 sachets 25ml, Distilled water for sensor cleaning | 51102093 |

### ○ BOTTLE **250 ml** with calibration compartment integrated

| Name | Description | p/n |
|------|-------------|-----|
| **pH 4,01** | ±0,01 / 25°C - Red | 51100033 |
| **pH 7,00** | ±0,01 / 25°C - Green | 51100043 |
| **pH 10,01** | ±0,02 / 25°C - Uncoloured | 51100063 |

### ○ BOTTLE **500 ml** with calibration compartment integrated

| Name | Description | p/n |
|------|-------------|-----|
| **pH 4,01** | ±0,01 / 25°C - Red | 51100133 |
| **pH 7,00** | ±0,01 / 25°C - Green | 51100143 |
| **pH 10,01** | ±0,02 / 25°C - Uncoloured | 51100163 |

Brochures *XS Vio and XS VioLab* are available on our website