



# B E N C H M E T E R S



pH  
ORP  
Temperature  
Conductivity  
TDS  
Dissolved Oxygen  
Salinity  
Resistivity



# The Perfect Combination



This Chinese symbol means the “The Double Happiness”, the combination between two perfect elements.

This is used in China as a greeting during wedding.

We believe that The Perfect combination is something that going on.

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design, innovative ideas in pH and conductivity measurement and easy use.

**This is the First Perfect Combination.**



If you have a beautiful bench meter, but you don't combine it with a perfect pH electrode, this will be always and only a simple instrument that shows only numbers on the display and not pH measurement. Also in this case we have worked for a perfect combination.

A very famous Swiss producer has developed, only for this line of instruments, a complete laboratory line of pH electrodes for every type of application.

**This is the Second Perfect Combination.**

“The calibration of pH measuring system is one of the most important factors. To ensure a high measuring accuracy one has to follow the correct calibration procedure, use new and accurate buffer solutions and wait long enough for stable indication values of the electrode assembly to be calibrated. No pH measurement can be more accurate than its calibration accuracy”

*(International of basic and General Terms in Metrology)*

If you have a good electrode, but you don't calibrate this with buffer solutions with good metrological traceability, You can't obtain reliable results. The XS buffer solutions come to celebrate the **Third Perfect Combination.**

**A Perfect Combination for new emotion.**



## Comparison table

Meter features	 pH 80	 pH 8	 pH 50	 COND 80	 COND 8	 COND 51	 PC 80	 PC 8
<b>pH e mV</b>	✓	✓	✓	-	-	-	✓	✓
<b>Resolution</b>	0.001	0.01	0.01	Automatic	Automatic	Automatic	0.001/Automatic	0.01/Automatic
<b>Points of calibration</b>	5	3	3	4	4	4	5/4	3/4
<b>Alarm min-max</b>	✓	-	-	-	-	-	✓	-
<b>Conductivity</b>	-	-	-	✓	✓	✓	✓	✓
<b>TDS</b>	-	-	-	✓	✓	-	✓	✓
<b>Salinity</b>	-	-	-	✓	-	-	✓	-
<b>Resistivity</b>	-	-	-	✓	-	-	✓	-
<b>Temperature</b>	-20...120 °C	0...100 °C	0...100 °C	-20...120 °C	0...100 °C	0...50 °C	-20...120 °C	0...100 °C
<b>Cal Due</b>	✓	-	-	✓	-	-	✓	-
<b>GLP</b>	✓	-	-	✓	-	-	✓	-
<b>Memory and data logger</b>	1000	-	25	1000	-	25	1000	-
<b>Real time colck</b>	✓	-	-	✓	-	-	✓	-
<b>Language</b>	8	-	-	8	-	-	8	-
<b>On line instruction manual</b>	✓	-	-	✓	-	-	✓	-
<b>PC/Printer connection</b>	✓	-	-	✓	-	-	✓	-

## XS instruments

Right solution from the start

Full line of waterproof portable and tester meters for pH, Conductivity and ORP in field measurement.



**pH Series**  
pH 7 - pH 70



**Conductivity Series**  
COND 7 - COND 70



**Multiparameter**  
Series PC 7 - PC 70



**pH-COND-PC-ORP**  
waterproof tester

# XS Instruments pH 80

## pH/mV/°C Bench top Meter

### Easy is the name of the game

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

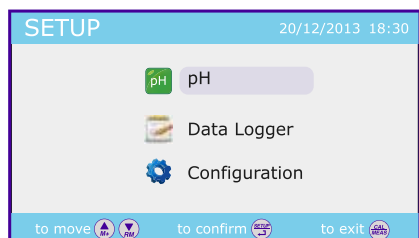
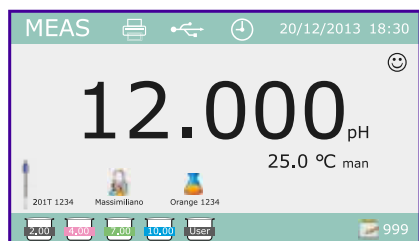
The large color display **easy on to read** shows all information that you need about measurement, buffers used for calibration, electrode's life, GLP information and instrument's memory.

Anyone can use this meter with its plain language screen prompts. Multilanguage interface that support English, Spanish, French, German, Italian... up 8 languages. **Easy to learn**. Complete English instruction manual available on line with press only one key.

Up to 5 point pH calibration with automatic recognition for USA/NIST/DIN and User buffers. Icon support all calibration editing function with advanced electrode diagnostics. **Easy to calibrate**.

### Main Features

- Display pH/mV and Temperature parameters simultaneously
- Selectable Resolution: 0,1/0,01/0,001 pH
- GLP and IQ-OQ manual available
- Automatic calibration up to 5 point automatic recognized for USA/NIST/DIN buffers.
- Manual-calibration up to 5 points (User defined pH Buffer)
- Large color display with indication of Calibration Buffers and measurement's stability
- Memory with re-call of last calibration date and time and information of electrode's life
- CAL DUE: set of calibration frequency for high quality of measurements
- Stability Parameter (Low-Med-High) for high accuracy measurement
- Stability indication of the measurement with icon
- Non-volatile memory holds up to 1000 data points with date and time in automatic (Data logger) or manual and send to PC or printer
- Stirrer plate included with direct control from pH 80 with independent keys integrated on case or removable with 50 cm long cable
- 2x USB ports to transfer data at PC or printer and for external keyboard
- Software PC-Link to download data (included)
- IP54 rated housing handles splashes
- 3 years meter replacement warranty



## Technical specification

Technical specification	pH 80
<b>pH measuring range</b>	-2...20
<b>Resolution</b>	0.1 / 0.01 / 0.001
<b>Relative accuracy</b>	±0,002
<b>Points of calibration</b>	1...5
<b>Buffer recognized</b>	USA, NIST, DIN, 5 USER
<b>Indication of calibration points</b>	YES
<b>GLP Calibration</b>	YES with data and time
<b>Indication of Slope and Offset</b>	YES with data and time
<b>Indication electrode condition</b>	YES with icon
<b>CAL DUE with allarm</b>	YES
<b>Criteria of measurement stability</b>	Low-Medium-High
<b>Allarm value</b>	MIN-MAX
<b>mV (redox) measuring range</b>	± 2000
<b>Resolution</b>	0.1 / 1
<b>Temperature measuring range</b>	-20...120°C
<b>Resolution/ Accuracy</b>	0,1/± 0,2°C
<b>Unit</b>	°C /°F
<b>Temperature compensation</b>	Manual or automatic (NTC 30KΩ) 0...100°C
<b>Temperature Calibration</b>	YES
<b>System GLP</b>	YES
<b>Memory</b>	MAN/AUTO 1000 date with data and time
<b>Display</b>	Dot matrix multicolors with icons, digital and analogic
<b>Inputs</b>	BNC, Cinch/RCA (ATC), USB for printer or PC, USB for external keyboard
<b>Languages</b>	8 language
<b>User manual</b>	YES
<b>Magnetical stirrer</b>	YES
<b>Speed controll stirrer</b>	0...3000 rpm
<b>IP Protection</b>	IP 54
<b>Power supply</b>	AC/DC adapter 9 V / 300 mA
<b>Dimensions</b>	360x220x100 mm
<b>Weight</b>	1250 gr

How to order	
Code	Description
<b>50001402</b>	<b>pH 80 complete kit</b> included pH electrode XS STANDARD, temperature probe NT55, S7/BNC 1 m cable, colored pH buffer solution pH 7 and pH 4, 2 becker with magnetical bar for calibration, electrodes arm, power supply and accessories. <b>With stirrer.</b>
<b>50001412</b>	<b>pH 80 kit without pH electrode.</b> Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, 2 becker with magnetical bar for calibration, electrodes arm, power supply and accessories. <b>With stirrer.</b>
<b>32200363</b>	<b>XS Standard</b> S7 pH electrode
<b>50001462</b>	External keyboard
<b>50001452</b>	External USB printer
<b>50001472</b>	IQ-OQ manual



# XS Instruments pH 8

## pH/mV/°C Bench top Meter

### Simple and Easy

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

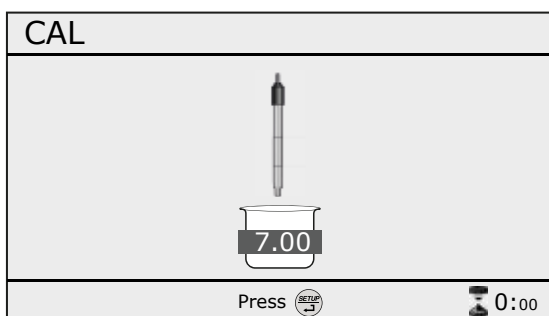
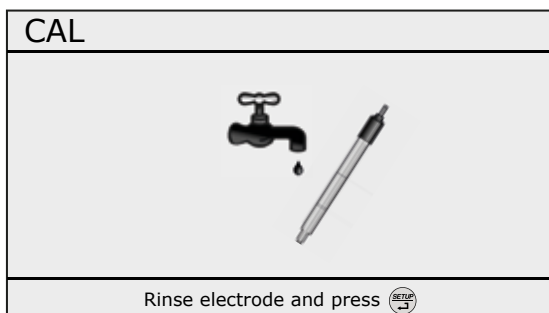
The large 2 color display **easy on to read** shows all information that you need about measurement, buffers used for calibration and electrode's life.

Up to 3 point pH calibration with automatic recognition for USA/NIST and User buffers. Icon support all calibration editing function with advanced electrode diagnostics. **Easy to calibrate.**

Only 5 keys allow the user to control all functions in an intuitive and **easy way**.

### Main Features

- Display pH/mV and Temperature parameters simultaneously
- Resolution selectable: 0,1/0,01 pH
- Automatic calibration up to 3 point automatic recognized for USA/NIST buffers.
- Manual-calibration up to 2 points (User defined pH Buffer)
- Large 2 color display with indication of Calibration Buffers and measurement's stability
- Stability indication of the measurement with icon
- Stirrer plate included with direct control from pH 8 with independent keys integrated on case or removable with 50 cm long cable
- IP54 rated housing handles splashes
- 3 years meter replacement warranty



## Technical specification

Technical specification	pH 8 Basic/Stirrer
<b>pH measuring range</b>	0...14
<b>Resolution</b>	0.1 / 0.01
<b>Relative accuracy</b>	±0,01
<b>Points of calibration</b>	1...3
<b>Buffer recognized</b>	USA, NIST, 2 USER
<b>Indication of calibration points</b>	YES
<b>Indication electrode condition</b>	YES
<b>Criteria of measurement stability</b>	Medium
<b>mV (redox) measuring range</b>	± 2000
<b>Resolution</b>	0.1 / 1
<b>Temperature measuring range</b>	0...100°C
<b>Resolution/ Accuracy</b>	0,1/± 0,2°C
<b>Unit</b>	°C/°F
<b>Temperature compensation</b>	Manual or automatic (NTC 30KΩ) 0...100°C
<b>Temperature Calibration</b>	YES
<b>Display</b>	Dot matrix, 2 colors
<b>Inputs</b>	BNC, Cinch/RCA (ATC)
<b>Magnetical stirrer</b>	NO in basic version, <b>YES in stirrer version</b>
<b>Speed controll stirrer</b>	0...3000 rpm
<b>IP Protection</b>	IP 54
<b>Power supply</b>	AC/DC adapter 9 V / 300 mA
<b>Dimensions</b>	200x220x100 mm only instrument, 360x220x100 mm with stirrer
<b>Weight</b>	950gr without stirrer, 1250gr <b>with stirrer</b>



How to order	
Code	Description
<b>50001202</b>	<b>pH 8 complete kit</b> included pH electrode XS POLYMER. Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, electrode holder and accessories.
<b>50001212</b>	<b>pH 8 kit without pH electrode.</b> Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, electrode holder and accessories.
<b>50001232</b>	<b>pH 8 Stirrer complete kit</b> included pH electrode XS POLYMER. Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, electrode holder, 2 becker with magnetical bar for calibration and accessories. <b>With stirrer.</b>
<b>50001242</b>	<b>pH 8 Stirrer kit without pH electrode.</b> Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, electrode holder, 2 becker with magnetical bar for calibration and accessories. <b>With stirrer.</b>
<b>50001132</b>	Integrated <b>magnetical stirrer</b> with control from instrument
<b>32200223</b>	XS Polymer S7 pH electrode
<b>50002012</b>	NT 55 temperature probe
<b>50000112</b>	Mod. 3900 electrode holder

# XS Instruments pH 50

pH/mV/°C Bench top Meter

## Basic and Easy

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

The LCD back light display **easy on to read** shows all information that you need about measurement, included icon for stability.

Up to 3 point pH calibration with automatic recognition for USA buffers. Icon support all calibration editing function with alarm electrode diagnostics. **Easy to calibrate**.

## Main Features

- Display pH/mV and Temperature parameters simultaneously
- Resolution: 0,01 pH
- Automatic calibration up to 3 point automatic recognized for USA buffers.
- Stability indication of the measurement with icon
- Non-volatile memory holds up to 25 data points
- IP54 rated housing handles splashes
- 3 years meter replacement warranty





## Technical specification

Technical specifications	pH 50
<b>pH measuring range</b>	0,00... 14,00 pH
<b>Resolution</b>	0,01 pH
<b>Calibration points</b>	1...3
<b>Buffer recognized</b>	USA: pH 4,01 / 7,00 / 10,01
<b>Indication of measurement stability</b>	Yes
<b>mV measuring range</b>	± 2.000 mV
<b>Resolution</b>	1 mV
<b>Temperature measuring range</b>	0... 100,0°C
<b>Resolution / Accuracy</b>	0,1 °C
<b>Temperature compensation</b>	Automatic / manual 0... 100°C
<b>Memory</b>	25 data
<b>Display</b>	LCD (Liquid Crystal Display) / Backlight
<b>Inputs</b>	BNC and Cinch/RCA (ATC)
<b>Power supply</b>	AC/DC adapter 9 V / 300 mA
<b>IP protection class</b>	IP 54
<b>Dimensions / weight instrument</b>	160 x 190 x 70 mm / 750 gr



How to order	
Code	Description
<b>50001002</b>	<b>pH 50 complete kit</b> included pH electrode 201T with temperature sensor inside and BNC, colored pH buffer solution pH 7 and pH 4 and electrode holder.
<b>50001012</b>	<b>pH 50 kit without pH electrode.</b> Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4 and electrode holder..
<b>50002002</b>	<b>pH Electrode mod. 201T</b> with integrated temperature sensor, cable length 1 m BNC plug
<b>50002012</b>	<b>NT 55</b> Temperature probe

# XS Instruments COND 80

## COND/TDS/Salinity/Resistivity/°C Bench top Meter

### Easy is the name of the game

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

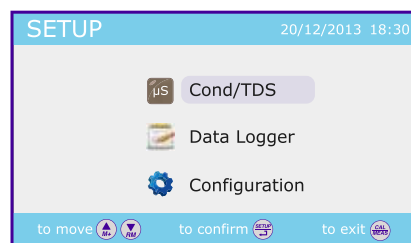
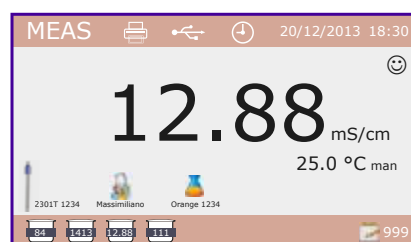
The large color display **easy on to read** shows all information that you need about measurement, standard used for calibration, GLP information and instrument's memory.

Anyone can use this meter with its plain language screen prompts. Multilanguage interface that support English, Spanish, French, German, Italian... up 8 language. **Easy to learn**. Complete English instruction manual available on line with press only one key.

Up to 4 point Conductivity calibration with automatic recognition and User standards. Icon support all calibration editing function with advanced conductivity cell diagnostics. **Easy to calibrate**.

### Main Features

- Display COND/TDS/Salinity/Resistivity and Temperature simultaneously
- Resolution: automatic scale
- Selectable cell constant allows for use with 2 or 4 plate cell
- GLP and IQ-OQ manual available
- Automatic calibration 1 to 4 points between 4 conductivity standard values
- Manual calibration on 1 point (User defined)
- Large color display with indication of Calibration standard used and measurement's stability
- Automatic and manual compensation of temperature with reference value 15...30 °C
- Memory with re-call of last calibration date and time and information of cell constant
- CAL DUE: set of calibration frequency for high quality of measurements
- Stability indication of the measurement with icon
- Non-volatile memory holds up to 1000 data points with date and time in automatic (Data logger) or manual and send to PC or printer
- Stirrer plate included with direct control from COND 80 with independent keys integrated on case or removable with 50 cm long cable
- 2x USB ports to transfer data at PC or printer and for external keyboard
- Software PC-Link to download data (included)
- IP54 rated housing handles splashes
- 3 years meter replacement warranty



## Technical specification

Technical specification	COND 80
<b>COND measuring range</b>	0,00...20,00 - 200,0 - 2000 $\mu$ S / 2,00 - 20,00 - 200,0 - 1000 mS
<b>Resolution</b>	Automatic scale
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>TDS measuring range</b>	0,1mg/L...500 g/L
<b>TDS Factor</b>	0.40...1.00
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>Salinity measuring range</b>	0,01...100 ppt
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>Resistivity measuring range</b>	0...20M $\Omega$
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>Temperature measuring range</b>	-20...120°C
<b>Resolution/ Accuracy</b>	0,1/ $\pm$ 0,2°C
<b>Unit</b>	°C /°F
<b>Temperature compensation</b>	Manual or automatic (NTC 30K $\Omega$ ) 0...100°C
<b>Temperature calibration</b>	YES
<b>Calibration points COND</b>	1...4
<b>Calibration standard recognized</b>	84, 1413 $\mu$ S / 12.88, 111.8 mS 1 point user defined
<b>Indication of calibration standard</b>	YES
<b>TC Temperature coefficient</b>	0,00...10,00% / °C
<b>TR Reference temperature</b>	15...30°C
<b>GLP Calibration</b>	YES with data and time
<b>Indication of cell condition</b>	YES with icon
<b>CAL DUE with allarm</b>	YES
<b>Type of cell</b>	2 or 4 pole
<b>Cell constant</b>	0.1...10.0
<b>System GLP</b>	YES
<b>Memory</b>	MAN/AUTO 1000 date with data and time
<b>Display</b>	Dot matrix multicolors with icons, digital
<b>Inputs</b>	BNC, Cinch/RCA (ATC), USB for printer or PC, USB for external keyboard
<b>Languages</b>	8 languages
<b>User manual</b>	YES
<b>Magnetical stirrer</b>	YES
<b>Speed controll stirrer</b>	0...3000 rpm
<b>IP Protection</b>	IP 54
<b>Power supply</b>	AC/DC adapter 9 V / 300 mA
<b>Dimensions</b>	360 x 220 x 100 mm
<b>Weight</b>	1250 g

How to order	
Code	Description
<b>50003402</b>	<b>COND 80 complete kit</b> included conductivity cell Glass-Pt VPT80/1, standard solution 1413 $\mu$ S and 12,88 mS, 2 becker with magnetical bar for calibration, power supply and accessories. <b>With stirrer.</b>
<b>50003412</b>	<b>COND 80 kit without conductivity cell.</b> Standard solution 1413 $\mu$ S and 12,88 mS, 2 becker with magnetical bar for calibration, power supply and accessories. <b>With stirrer.</b>
<b>50003352</b>	<b>VPT80/1</b> conductivity cell C=1 with ATC, glass body, platinum plate with 1 m cable. Measuring range: 10 $\mu$ S...100 mS, 0...80 °C
<b>50003362</b>	<b>VPT80/4</b> conductivity cell 4 pole C=0,5 with ATC, epoxy body, graphite plate with 1 m cable. Measuring range: 20 $\mu$ S...500 mS, 0...60 °C
<b>50004012</b>	<b>VPT51/01</b> conductivity cell C=0,1 with ATC, PVC/stainless steel, with 1 m cable. Measuring range: 0,1 $\mu$ S...1mS, 0...60 °C
<b>50002012</b>	<b>NT 55</b> Temperature probe
<b>50001462</b>	<b>External keyboard</b>
<b>50001452</b>	<b>External USB printer</b>
<b>50001472</b>	<b>IQ-OQ manual</b>



# XS Instruments COND 8

## COND/TDS/°C Bench top Meter

### Simple and Easy

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

The large 2 color display **easy on to read** shows all information that you need about measurement, Standard used for calibration.

Up to 4 point Conductivity calibration with automatic recognition and User standards. Icon support all calibration editing function with advanced conductivity cell diagnostics. **Easy to calibrate**.

Only 5 keys allow the user to control all functions in an intuitive and **easy way**.

### Main Features

- Display COND/TDS and Temperature simultaneously
- Resolution: automatic scale
- Selectable cell constant allows for use with 2 plate cell
- Automatic calibration 1 to 4 points between 4 conductivity standard values
- Manual calibration up to 1 points (User defined pH Buffer)
- Large 2 color display with indication of Calibration Standards and measurement's stability
- Stability indication of the measurement with icon
- Stirrer plate included with direct control from COND 8 with independent keys integrated on case or removable with 50 cm long cable
- IP54 rated housing handles splashes
- 3 years meter replacement warranty



VPT 51/01  
For ultra pure water



## Technical specification

Technical specification	COND 8 Basic / Stirrer
<b>COND measuring range</b>	0,00...20,00 - 200,0 - 2000 $\mu$ S / 2,00 - 20,00 - 200,0 mS
<b>Resolution</b>	Automatic scale
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>TDS measuring range</b>	0,1mg/L...100 gr/L
<b>TDS Factor</b>	0.40...1.00
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>Temperature measuring range °C</b>	0...100
<b>Resolution/ Accuracy</b>	0,1/ $\pm$ 0,2°C
<b>Unit</b>	°C/°F
<b>Temperature compensation</b>	Manual or automatic (NTC 30K $\Omega$ ) 0...100°C
<b>Temperature calibration</b>	YES
<b>Calibration points COND</b>	1...4
<b>Calibration standard recognized</b>	84, 1413 $\mu$ S / 12.88, 111.8 mS 1 point user defined
<b>Indication of calibration standard</b>	YES
<b>TC Temperature coefficient</b>	0,00...10,00% / °C
<b>TR Reference temperature</b>	15...30°C
<b>Indication of cell condition</b>	YES
<b>Type of cell</b>	2 pole
<b>Cell constant</b>	0.1 / 1 / 10
<b>Display</b>	Dot matrix, 2 colors
<b>Inputs</b>	BNC, Cinch/RCA (ATC)
<b>Magnetical stirrer</b>	NO in basic version, <b>YES in stirrer version</b>
<b>Speed controll stirrer</b>	0...3000 rpm
<b>IP Protection</b>	IP 54
<b>Power supply</b>	AC/DC adapter 9 V / 300 mA
<b>Dimensions</b>	200x220x100mm only instrument, 360x220x100 mm with stirrer
<b>Weight</b>	950gr without stirrer, 1250gr <b>with stirrer</b>



How to order	
Code	Description
<b>50003202</b>	<b>COND 8 complete kit</b> included conductivity cell 2301T. Standard solution 1413 $\mu$ S and 12,88 mS, cell holder and accessories.
<b>50003212</b>	<b>COND 8 kit without conductivity cell.</b> Standard solution 1413 $\mu$ S and 12,88 mS, cell holder and accessories.
<b>50003232</b>	<b>COND 8 complete kit</b> included conductivity cell 2301T. Standard solution 1413 $\mu$ S and 12,88 mS, 2 becker with magnetical bar for calibration, cell holder and accessories. <b>With stirrer.</b>
<b>50003242</b>	<b>COND 8 kit without conductivity cell.</b> Standard solution 1413 $\mu$ S and 12,88 mS, 2 becker with magnetical bar for calibration, cell holder and accessories. <b>With stirrer.</b>
<b>50001132</b>	Integrated <b>magnetical stirrer</b> with control from instrument
<b>50004002</b>	<b>2301T</b> standard cell with ATC, range 10 $\mu$ S...200 mS, 0...60 °C
<b>50003352</b>	<b>VPT80/1</b> conductivity cell C=1 with ATC, glass body, platinum plate with 1 m cable. Measuring range: 10 $\mu$ S...100 mS, 0...80 °C
<b>50004012</b>	<b>VPT51/01</b> conductivity cell C=0,1 with ATC, PVC/stainless steel, with 1 m cable. Measuring range: 0,1 $\mu$ S...1 mS, 0...60 °C
<b>50002012</b>	<b>NT 55</b> Temperature probe

# XS Instruments COND 51

## COND/°C Bench top Meter

### Basic and Easy

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

The LCD back light display **easy on to read** shows all information that you need about measurement, included icon for stability.

Up to 4 point Conductivity calibration with automatic recognition. **Easy to calibrate**.

### Main Features

- Display COND and Temperature parameters simultaneously
- Resolution: automatic scale
- Selectable cell constant allows for use with 2 plate cell
- Automatic calibration 1 to 4 points between 4 conductivity standard values
- Indication stability of the measurement with icon
- Non-volatile memory holds up to 25 data points
- IP54 rated housing handles splashes
- 3 years meter replacement warranty



VPT 51/01  
For ultra pure water

## Technical specification

Technical specifications	COND 51
<b>COND measuring range</b>	0... 200,0 - 2000 $\mu$ S / 2,00... 20,00 - 200,0 mS
<b>Resolution</b>	0,1 - 1 $\mu$ S / 0,01 - 0,1 mS
<b>Calibration points</b>	1...4
<b>Calibration standards ricongnized</b>	84 $\mu$ S, 1413 $\mu$ S, 12,88 mS, 111,9 mS
<b>Cell constant selectable</b>	0,1 / 1 / 10 $\text{cm}^{-1}$
<b>Temperature coefficient</b>	0,00...9,99 %/°C
<b>Reference temperature</b>	25 °C
<b>Temperature measuring range</b>	0...50,0 °C
<b>Risolution / Accuracy</b>	0,1 / $\pm$ 0,2 °C
<b>Temperature compensation</b>	Automatic / manual 0...80 °C
<b>Memory</b>	25 data
<b>Display</b>	LCD (Liquid Crystal Display) / backlight
<b>Inputs</b>	BNC and Cinch/RCA (ATC)
<b>Power supply</b>	AC/DC adapter 9 V / 300 mA
<b>IP protection class</b>	IP 54
<b>Dimensions / weight instrument</b>	160 x 190 x 70 mm / 750 gr



How to order	
Code	Description
<b>50003002</b>	<b>COND 51 complete kit</b> include cond. Cell 2301T with ATC, cable length <b>1m</b> . Cell holder, standard calibration solutions 1413 $\mu$ S and 12,88 mS and accessories.
<b>50003012</b>	<b>COND 51 without conductivity Cell</b> . standard calibration solutions 1413 $\mu$ S and 12,88 mS, cell holder and accessories
<b>50004002</b>	<b>2301T</b> standard cell with ATC, range 10 $\mu$ S...200 mS, 0...60 °C
<b>50004012</b>	<b>VPT 51/01</b> . Conductivity cell C=0,1 with ATC. Range 0,1 $\mu$ S...1 mS. Steel/PVC.



# XS Instruments PC 80

pH/mV/ COND/TDS/Salinity/Resistivity/°C Bench top Meter

## Easy is the name of the game

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

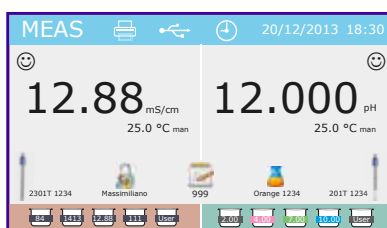
The large color display **easy on to read** shows all information that you need about measurement, buffers used for calibration, electrode's life, GLP information and instrument's memory.

Anyone can use this meter with its plain language screen prompts. Multilanguage interface that support English, Spanish, French, German, Italian... up 8 language. **Easy to learn**. Complete English instruction manual available on line with press only one key.

Up to 5 point pH calibration with automatic recognition for USA/NIST/DIN, up to 4 point COND calibration and User buffers. Icon support all calibration editing function with advanced electrode diagnostics. **Easy to calibrate**.

## Main Features

- Display pH/mV and Temperature, COND/TDS/Salinity/Resistivity and Temperature simultaneously
- Selectable Resolution: 0,1/0,01/0,001 pH; Auto range for COND
- GLP and IQ-OQ manual available
- Selectable cell constant allows for use with 2 or 4 plate cell
- Large color display with indication of Calibration Buffers and measurement's stability
- Memory with re-call of last calibration date and time and information of electrode's life
- CAL DUE: set of calibration frequency for high quality of measurements
- Stability Parameter (Low-Med-High) for high accuracy measurement
- Non-volatile memory holds up to 1000 data points with date and time in automatic (Data logger) or manual and send to PC or printer
- Stirrer plate included with direct control from PC 80 with independent keys integrated on case or removable with 50 cm long cable
- 2x USB ports to transfer data at PC or printer and for external keyboard
- Software PC-Link to download data (included)
- IP54 rated housing handles splashes
- 3 years meter replacement warranty



VPT 51/01



Printer and Keyboard



# Technical specification

Technical specification	PC 80
<b>pH</b> measuring range	-2...20
<b>Resolution/ Relative accuracy</b>	0.1 / 0.01 / 0.001 / $\pm 0,002$
<b>Points of calibration</b>	1...5
<b>Buffer recognized</b>	USA, NIST, DIN, 5 USER
<b>Indication of calibration points</b>	YES
<b>GLP Calibration</b>	YES with data and time
<b>Indication electrode condition</b>	YES with icon
<b>CAL DUE with allarm</b>	YES
<b>Criteria of measurement stability</b>	Low-Medium-High
<b>Allarm value</b>	MIN-MAX
<b>mV (redox) measuring range/ Resolution</b>	$\pm 2000 / 0.1 / 1$
<b>COND</b> measuring range	0,00...20,00 - 200,0 - 2000 $\mu$ S / 2,00 - 20,00 - 200,0 - 1000 mS
<b>Resolution</b>	Automatic scale
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>TDS</b> measuring range	0,1mg/L...500 gr/L
<b>TDS Factor / Relative accuracy</b>	0.40...1.00 / $\pm 1$ % full scale
<b>Salinity</b> measuring range/ Relative accuracy	0,01...100ppt / $\pm 1$ % full scale
<b>Resistivity</b> range / Relative accuracy	0...20M $\Omega$ / $\pm 1$ % full scale
<b>Temperature</b> range °C / Accuracy	-20,0...120,0 / $\pm 0,2^{\circ}$ C
<b>Temperature compensation</b>	Manual or automatic (NTC 30K $\Omega$ ) 0...100°C
<b>Temperature calibration</b>	YES
<b>Calibration points COND</b>	1...4
<b>Calibration standard recognized</b>	84, 1413 $\mu$ S / 12.88, 111.8 mS 1 point user defined
<b>Indication of calibration standard</b>	YES
<b>TC Temperature coefficient</b>	0,00...10,00% / °C
<b>TR Reference temperature</b>	15...30°C
<b>GLP Calibration</b>	YES with data and time
<b>Indication of cell condition</b>	YES with icon
<b>CAL DUE COND with allarm</b>	YES
<b>Type of cell</b>	2 or 4 pole
<b>Cell constant</b>	0.1...10.0
<b>System GLP</b>	YES
<b>Memory</b>	MAN/AUTO 1000 date with data and time
<b>Display</b>	Dot matrix multicolors with icons, digital and analogic
<b>Inputs</b>	2 x BNC, 2 x Cinch/RCA (ATC), USB for printer or PC, USB for external keyboard
<b>Language</b>	8 languages
<b>Manual On-line</b>	YES
<b>Magnetical stirrer</b>	YES
<b>Speed controll stirrer</b>	0...3000 rpm
<b>IP Protection</b>	IP 54
<b>Power supply</b>	AC/DC adapter 9 V / 300 mA
<b>Dimensions / Weight</b>	360 x 220 x 100 mm / 1250 g

How to order	
Code	Description
<b>50004242</b>	<b>PC 80 complete kit</b> included pH electrode XS STANDARD S7, cable S7/BNC, conductivity cell glass <b>VPT 80/1</b> with ATC. Colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu$ S and 12,88 mS, power supply and accessories. <b>With stirrer.</b>
<b>50004252</b>	<b>PC 80 kit without pH electrode, with cond. cell</b> glass <b>VPT 80/1</b> . Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu$ S and 12,88 mS, power supply and accessories. <b>With stirrer.</b>
<b>50004262</b>	<b>PC 80 with pH electrode XS STANDARD BNC, without cond. cell.</b> Temperature probe NT55, colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu$ S and 12,88 mS, power supply and accessories. <b>With stirrer.</b>
<b>50004272</b>	<b>PC 80 without pH electrode and cond. cell.</b> Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu$ S and 12,88 mS, power supply and accessories are provided. <b>With stirrer.</b>
<b>32200363</b>	<b>XS Standard S7</b> pH electrode
<b>50003352</b>	<b>VPT80/1</b> conductivity cell C=1 with ATC, glass body, platinum plate with 1 m cable. Measuring range: 10 $\mu$ S...100 mS, 0...80 °C
<b>50003362</b>	<b>VPT80/4</b> conductivity cell 4 pole C=0,5 with ATC, epoxy body, graphite plate with 1 m cable. Measuring range: 20 $\mu$ S...500 mS, 0...60 °C
<b>50004012</b>	<b>VPT51/01</b> conductivity cell C=0,1 with ATC, PVC/stainless steel, with 1 m cable. Measuring range: 0,1 $\mu$ S...1 mS, 0...60 °C
<b>50002012</b>	<b>NT 55</b> Temperature probe
<b>50001462</b>	<b>External keyboard</b>
<b>50001452</b>	<b>External USB printer</b>
<b>50001472</b>	<b>IQ-OQ manual</b>

# XS Instruments PC 8

## pH/mV/COND/TDS/°C Bench top Meter

### Simple and Easy

A group of European experts in electrochemistry and a famous Asian producer have developed this new line of bench top meters, finding the right balance between the design and **easy to use**.

The large 2 color display **easy on to read** shows all information that you need about measurement, buffers used for calibration, electrode's life.

Up to 3 point pH calibration with automatic recognition for USA/NIST, up to 4 point Conductivity calibration with automatic recognition and User buffers. Icon support all calibration editing function with advanced electrode diagnostics. **Easy to calibrate**.

Only 5 keys allow the user to control all functions in an intuitive and **easy way**.

### Main Features

- Display pH/mV and Temperature, COND/TDS and Temperature simultaneously
- Resolution selectable: 0,1/0,01 pH; Auto range for COND
- Selectable cell constant allows for use with 2 plate cell
- Large 2 color display with indication of Calibration Buffers and measurement's stability
- Stability indication of the measurement with icon
- Stirrer plate included with direct control from PC 8 with independent keys integrated on case or removable with 50 cm long cable
- IP54 rated housing handles splashes
- 3 years meter replacement warranty



VPT 51/01  
For ultra pure water

# Technical specification

Technical specification	PC 8
<b>pH</b> measuring range	0...14
<b>Resolution / Relative accuracy</b>	0.1 / 0.01 / $\pm 0,01$
<b>Points of calibration</b>	1...3
<b>Buffer recognized</b>	USA, NIST, 2 USER
<b>Indication of calibration points</b>	YES
<b>Indication electrode condition</b>	YES
<b>Criteria of measurement stability</b>	Medium
<b>mV</b> (redox) measuring range	$\pm 2000$
<b>Resolution</b>	0.1 / 1
<b>COND</b> measuring range	0,00...20,00 - 200,0 - 2000 $\mu\text{S}$ / 2,00 - 20,00 - 200,0 mS
<b>Resolution / Relative accuracy</b>	Automatic scale / $\pm 1$ % full scale
<b>TDS</b> measuring range	0,1mg/l...100 gr/l
<b>TDS Factor</b>	0.40...1.00
<b>Relative accuracy</b>	$\pm 1$ % full scale
<b>Temperature</b> measuring range $^{\circ}\text{C}$	0...100
<b>Resolution/ Accuracy</b>	0,1/ $\pm 0,2^{\circ}\text{C}$
<b>Temperature compensation</b>	Manual or automatic (NTC 30K $\Omega$ ) 0...100 $^{\circ}\text{C}$
<b>Temperature calibration</b>	YES
<b>Calibration points COND</b>	1...4
<b>Calibration standard recognized</b>	84, 1413 $\mu\text{S}$ / 12.88, 111.8 mS 1 point user defined
<b>Indication of calibration standard</b>	YES
<b>TC Temperature coefficient</b>	0,00...10,00% / $^{\circ}\text{C}$
<b>TR Reference temperature</b>	15...30 $^{\circ}\text{C}$
<b>Indication of cell condition</b>	YES
<b>Type of cell</b>	2 pole
<b>Cell constant</b>	0.1 / 1 / 10
<b>Display</b>	Dot matrix, 2 colors
<b>Inputs</b>	2xBNC, 2xCinch/RCA (ATC)
<b>Magnetical stirrer</b>	YES
<b>Speed controll stirrer</b>	0...3000 rpm
<b>IP Protection</b>	IP 54
<b>Power supply</b>	AC/DC adapter 9V/300 mA
<b>Dimensions / Weight</b>	360 x 220 x 100 mm / 1250 g

How to order	
Code	Description
<b>50004142</b>	<b>PC 8 complete kit</b> included pH electrode XS Polymer, conductivity cell 2301T with ATC. Cable S7/BNC. Colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu\text{S}$ and 12,88 mS, power supply and accessories. <b>With stirrer.</b>
<b>50004152</b>	<b>PC 8 kit without pH electrode, with cond. cell 2301T.</b> Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu\text{S}$ and 12,88 mS, power supply and accessories. <b>With stirrer.</b>
<b>50004162</b>	<b>PC 8 with pH electrode XS Polymer, without cond. cell.</b> Cable S7/BNC. Temperature probe NT55, colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu\text{S}$ and 12,88 mS, power supply and accessories. <b>With stirrer.</b>
<b>50004172</b>	<b>PC 8 without pH electrode and cond. cell.</b> Cable S7/BNC, temperature probe NT55, colored pH buffer solution pH 7 and pH 4, standard conductivity solution 1413 $\mu\text{S}$ and 12,88 mS, power supply and accessories are provided. <b>With stirrer.</b>
<b>32200443</b>	<b>XS Polymer S7 pH electrode</b>
<b>50004002</b>	<b>2301T</b> standard cell with ATC, range 10 $\mu\text{S}$ ...200 mS, 0...60 $^{\circ}\text{C}$
<b>50003352</b>	<b>VPT80/1</b> conductivity cell C=1 with ATC, glass body, platinum plate with 1 m cable. Measuring range: 10 $\mu\text{S}$ ...100 mS, 0...80 $^{\circ}\text{C}$
<b>50004012</b>	<b>VPT51/01</b> conductivity cell C=0,1 with ATC, PVC/stainless steel, with 1 m cable. Measuring range: 0,1 $\mu\text{S}$ ...1 mS, 0...60 $^{\circ}\text{C}$
<b>50002012</b>	<b>NT 55</b> Temperature probe

# XS Sensor electrodes

Very famous Swiss producer has developed a complete line laboratory pH, Redox and conductivity electrodes, with glass and plastic body. The new XS sensor are available with S7 head or cable fix with BNC or DIN connector plug. For food application many models are equipped with temperature sensor inside for easy to clean and fast temperature compensation.

Some models are designed to help in daily work in GLP condition with indelible internal serial number and certificate are provided with quality test.



Serial number



Blue inner buffer

Special polymer electrolyte combined with high performance reference system generate a complete range of electrodes for food application in special part of this catalogue.

Blue inner buffer provides clear visual of contact with internal pH glass membrane.

All XS sensors line are connectable at all common pHmeters brand in the market. Our customer support are available for every special application request or support for right type electrode indication.

***XS sensor for pH is not only pH electrode is perfect combination for pH measurement with XS pH meters and XS buffer solutions.***

## GENERAL LABORATORY APPLICATION

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open pore
Reference system:	Ag/AgCl cartridge
Electrolyte:	Polymer maintenance free
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>POLYMER</b>	0...14	-10...+80 °C	S7 connector	1 Diaphragm open pore	<b>32200223</b>

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Open pore
Reference system:	Ag/AgCl cartridge
Electrolyte:	Polymer maintenance free
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>POLYMER TIP</b>	0...14	-10...+80 °C	S7 connector	2 Diaphragm open pore for soil pH measure	<b>32200443</b>



Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl
Electrolyte:	Gel maintenance free
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>GEL</b>	0...14	-10...+60 °C	S7 connector	General application	<b>32200203</b>



Shaft material:	Glass
Temperature probe:	No – Yes (for model T)
Diaphragm:	Ceramic
Reference system:	Ag/AgCl cartridge
Electrolyte:	KCl 3M
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>STANDARD</b>	0...14	-10...+100 °C	S7 connector	General application <b>serial number/certificate</b>	<b>32200363</b>
<b>STANDARD HA</b>	0...14	-10...+100 °C	S7 connector	Minimal alkali error <b>serial number/certificate</b>	<b>32200423</b>
<b>STANDARD HF</b>	0...14	-10...+100 °C	S7 connector	For samples with HF (0,01M/200 mg/l)	<b>32200433</b>

BNC Plug



RCA Cinch Plug



DIN Plug



Model	Range pH	Temp. °C	Head	Note	Code
<b>STANDARD BNC</b>	0...14	-10...+100 °C	Cable fix / BNC	General application <b>serial number/certificate</b>	<b>32200263</b>
<b>STANDARD DIN</b>	0...14	-10...+100 °C	Cable fix / DIN		<b>32200273</b>
<b>STANDARD T - BNC</b>	0...14	-10...+100 °C	Cable fix / BNC	With temperature sensor NTC 30KΩ plug RCA Cinch	<b>32200473</b>
<b>STANDARD T - DIN</b>	0...14	-10...+100 °C	Cable fix / DIN	With temperature sensor NTC 30KΩ plug Banana 4mm	<b>32200463</b>



Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Teflon sleeve
Reference system:	Ag/AgCl cartridge
Electrolyte:	KCl 3M
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>FLOW</b>	0...14	-10...+80 °C	S7 connector	Viscous sample and low ion media <b>serial number/certificate</b>	<b>32200373</b>

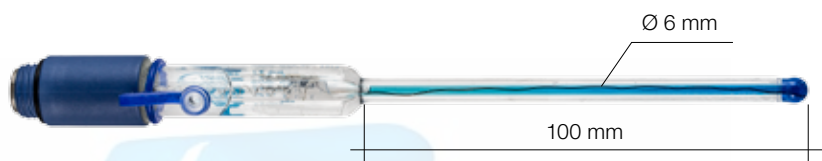


Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Teflon with 3 hole
Reference system:	Ag Coated
Electrolyte:	Polymer maintenance free
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>FLAT</b>	0...14	0...+60 °C	S7 connector	For surface measurements e. g. paper	<b>32200413</b>

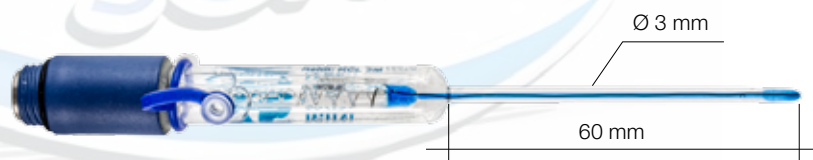
Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl cartridge
Electrolyte:	KCl 3M
length:	100 mm
Diameter:	12 mm / 6 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>SEMI MICRO</b>	0...14	0...+100 °C	S7 connector	Test tube measurements	<b>32200383</b>



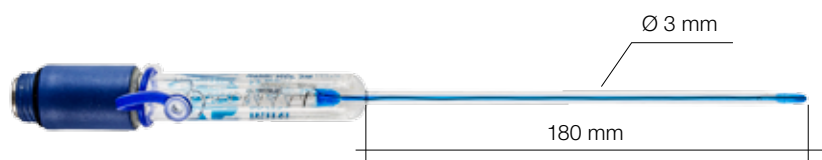
Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl cartridge
Electrolyte:	KCl 3M / Glycerin KCl
length:	60 mm
Diameter:	12 mm / 3 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>MICRO</b>	0...14	0...+100 °C	S7 connector	Electrolyte KCl 3M small volume sample <2 ml	<b>32200213</b>
<b>MICRO P</b>	0...14	0...+100 °C	S7 connector	Electrolyte Glycerin KCl small volume sample <2 ml with protein	<b>32200253</b>



Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl cartridge
Electrolyte:	KCl 3M
length:	180 mm
Diameter:	12 mm / 3 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>MICRO SPECIAL</b>	0...14	0...+100 °C	S7 connector	Measure in NMR tube	<b>32200453</b>

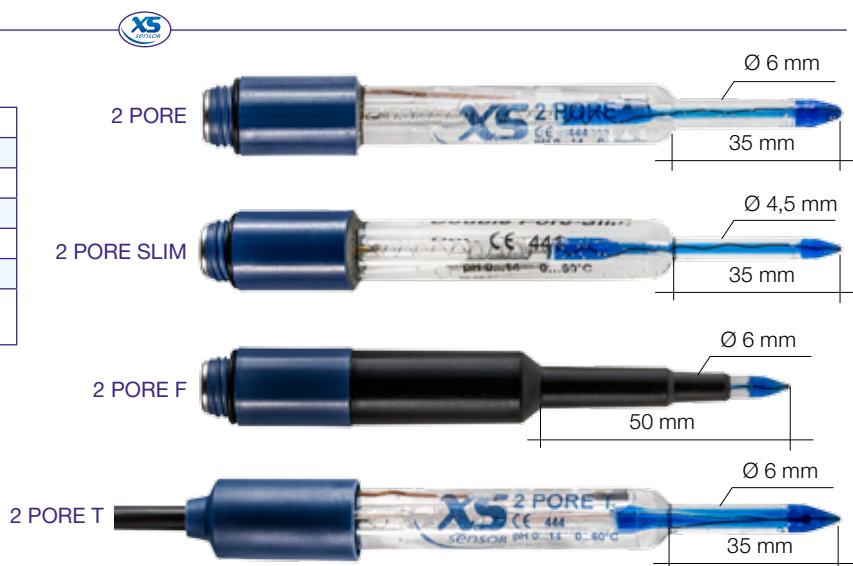
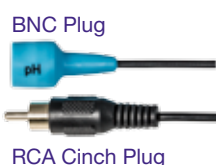
## FOOD MEASUREMENTS APPLICATION

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	3 ceramic diaphragms
Reference system:	Ag/AgCl cartridge
Electrolyte:	Glycerin KCl
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>FOOD</b>	0...14	-10...+100 °C	S7 connector	Glycerin KCl electrolyte	<b>32200393</b>

Shaft material:	Glass – POM/Glass (F model)
Temperature probe:	No – Yes (T model)
Diaphragm:	2 diaphragms open pore
Reference system:	Ag Coated
Electrolyte:	Polymer maintenance free
length:	35 mm
Diameter:	12 mm / 6 mm 12 mm / 4,5 mm (SLIM model)



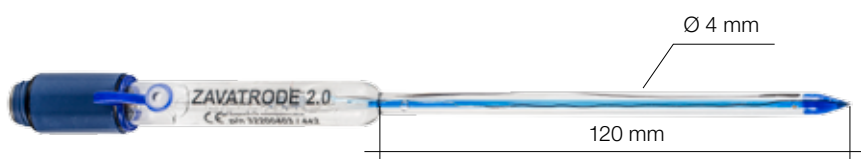
Model	Range pH	Temp. °C	Head	Note	Code
<b>2 PORE</b>	0...14	0...+60 °C	S7 connector	-	<b>32200333</b>
<b>2 PORE SLIM</b>	0...14	0...+60 °C	S7 connector	-	<b>32200283</b>
<b>2 PORE F</b>	0...14	0...+60 °C	S7 connector	-	<b>32200293</b>
<b>2 PORE T</b>	0...14	0...+60 °C	Cable fix / BNC	With temperature sensor NTC 30KΩ plug RCA Cinch	<b>32200323</b>

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	2 Ceramic diaphragms
Reference system:	Ag/AgCl cartridge
Electrolyte:	Glycerin KCl
length:	25 mm
Diameter:	12 mm / 6 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>FOOD SLIM</b>	0...14	0...+100 °C	S7 connector	-	<b>32200243</b>

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl
Electrolyte:	Glycerin KCl
length:	120 mm
Diameter:	12 mm / 4 mm



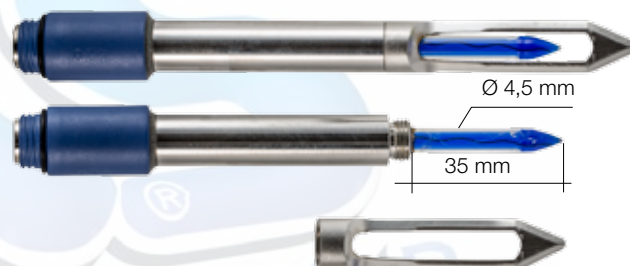
Model	Range pH	Temp. °C	Head	Note	Code
<b>ZAVATRODE</b>	0...14	0...+60 °C	S7 connector	Cheese measurements	<b>32200403</b>

Shaft material:	Glass/steel
Temperature probe:	Yes
Diaphragm:	2 open pore diaphragms
Reference system:	Ag Coated
Electrolyte:	Polymer maintenance free
length:	50 mm
Diameter:	12 mm / 6 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>2 PORE STEEL T</b>	0...14	0...+60 °C	Fix cable / BNC	With temperature sensor NTC 30KΩ plug RCA Cinch	<b>32200313</b>

Shaft material:	Glass/steel
Temperature probe:	Yes
Diaphragm:	2 open pore diaphragms
Reference system:	Ag Coated
Electrolyte:	Polymer maintenance free
length:	35 mm
Diameter:	12 mm / 6 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>2 PORE K complete</b>	0...14	0...+60 °C	S7 connector	With knife	<b>32200303</b>
<b>2 PORE K without knife</b>	0...14	0...+60 °C	S7 connector	Without knife	<b>32200343</b>
<b>Knife for 2 PORE K</b>	-	-	-	-	<b>32200353</b>

## ELECTRODES FOR ORP MEASUREMENT

Shaft material:	Glass
Temperature probe:	No
Diaphragm:	3 ceramic diaphragms
Reference system:	Ag/AgCl cartridge
Electrolyte:	KCl 3M
length:	120 mm
Diameter:	12 mm



Model	Range mV	Temp. °C	Head	Note	Code
<b>STANDARD ORP</b>	± 2000 mV	-10...+100 °C	S7 connector	Platinum ring for ORP/Redox	<b>32200233</b>



Shaft material:	Glass
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl cartridge
Electrolyte:	KNO <sub>3</sub> 1M
length:	120 mm
Diameter:	12 mm



Model	Range mV	Temp. °C	Head	Note	Code
<b>STANDARD Ag</b>	± 2000 mV	-10...+80 °C	S7 connector	Silver tip for argentometric titration	<b>32200483</b>



Shaft material:	Epoxy
Temperature probe:	No
Diaphragm:	Ceramic
Reference system:	Ag/AgCl double junction
Electrolyte:	Gel maintenance free
length:	120 mm
Diameter:	12 mm



Model	Range mV	Temp. °C	Head	Note	Code
<b>Plast ORP</b>	± 1000 mV	0...+60 °C	S7 connector	Platinum pin for ORP/REDOX	<b>32200663</b>
<b>Plast ORP BNC</b>	± 1000 mV	0...+60 °C	Fix cable / BNC	Platinum pin for ORP/REDOX	<b>32200673</b>



## pH PLASTIC SHAFT ELECTRODES

Shaft material:	Epoxy
Temperature probe:	No
Diaphragm:	1 ceramic + 1 open pore
Reference system:	Ag/AgCl cartridge
Electrolyte:	Polymer maintenance free
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>POLYMER PLAST</b>	0...14	0...+60 °C	S7 connector	-	<b>32200493</b>
<b>POLYMER PLAST BNC</b>	0...14	0...+60 °C	Fix cable / BNC	-	<b>32200503</b>
<b>POLYMER PLAST DIN</b>	0...14	0...+60 °C	Fix cable / DIN	-	<b>32200513</b>



Shaft material:	Epoxy
Temperature probe:	Yes
Diaphragm:	1 ceramic
Reference system:	Ag/AgCl
Electrolyte:	Gel maintenance free
length:	120 mm
Diameter:	12 mm



Model	Range pH	Temp. °C	Head	Note	Code
<b>201T</b>	0...14	0...+60 °C	Fix cable / BNC	With temperature sensor NTC 30KΩ plug RCA Cinch	<b>50002002</b>



## Electrolyte and maintenance solutions

Part No.	Package	Description
<b>32208003</b>	75ml	3M KCl XS Sensor Electrolyte solution
<b>32208013</b>	500ml	3M KCl XS Sensor Electrolyte solution
<b>32208023</b>	75ml	GLYCERIN-KCl XS Sensor Electrolyte solution
<b>32208033</b>	75ml	KNO <sub>3</sub> 1M Electrolyte solution for XS Sensor STANDARD Ag
<b>32208043</b>	75ml	XS Sensor STORAGE Solution
<b>32208053</b>	500ml	XS Sensor STORAGE Solution
<b>32208063</b>	75ml	PROTEIN CLEANING Solution (pepsin) for XS Sensor
<b>32208073</b>	75ml	DIAPHRAGM CLEANING solution (thiourea) for XS Sensor
<b>32208083</b>	75ml	REGENERATION Solution for XS Sensor pH electrode

# XS Conductivity cells

Shaft material:	Glass
Temperature probe:	No/Yes in VPT 80/1
Plate:	Platinum
length:	120 mm
Diameter:	12 mm

BNC Plug



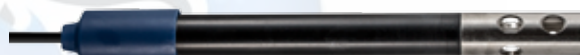
RCA Cinch Plug



Model	Range COND	Temp. °C	Head	Note	Code
<b>VP 8</b>	10µS...10mS	0...+80 °C	Fix cable / BNC	cell constant C=1	<b>50004062</b>
<b>VPT 80/1</b>	10µS...10mS	0...+80 °C	Fix cable / BNC	cell constant C=1 With sensor NTC 30KΩ plug RCA Cinch	<b>50003352</b>



Shaft material:	PVC / Steel
Temperature probe:	Yes
Plate:	Steel
length:	120 mm
Diameter:	12 mm



Model	Range COND	Temp. °C	Head	Note	Code
<b>VPT 51/01</b>	0,1 µS...1 mS	0...+60 °C	Fix cable / BNC	cell constant C=0,1 With sensor NTC 30KΩ plug RCA Cinch ultrapure water	<b>50004012</b>



Shaft material:	Glass
Temperature probe:	Yes
Plate:	Platinum
length:	120 mm
Diameter:	12 mm



Model	Range COND	Temp. °C	Head	Note	Code
<b>VPT 80/10</b>	100 µS...200 mS	0...+80 °C	Fix cable BNC	cell constant C=10 With sensor NTC 30KΩ plug RCA Cinch sea water	<b>50004072</b>



Shaft material:	PVC
Temperature probe:	Yes
Plate:	4 graphite plate
length:	120 mm
Diameter:	12 mm



Model	Range COND	Temp. °C	Head	Note	Code
<b>VPT 80/4</b>	10 µS...200 mS	0...+60 °C	Fix cable / multipin	cell constant C=0,5 With sensor NTC 30KΩ plug multipin	<b>50003362</b>



Shaft material:	PVC / Steel
Temperature probe:	Yes
Plate:	Steel
length:	120 mm
Diameter:	12 mm



Model	Range COND	Temp. °C	Head	Note	Code
<b>2301T</b>	10 µS...200 mS	0...+60 °C	Fix cable / BNC	cell constant C=1 With sensor NTC 30KΩ plug RCA Cinch	<b>50004002</b>

## Cables



1 m cable S7 / BNC

**33551733**



1 m cable S7 / DIN

**33551743**

# Calibration Buffers and Standards with N.I.S.T. Traceability



Package pH 4,01



Package pH 7,00



Package pH 9,00 / 9,21



Package pH 10,01



Package conductivity standard

## Conductivity Standards

- 500 ml ergonomic bottle with built-in dosing compartment and value table depending on temperature for an accurate calibration
- Economical, using just the proper amount per calibration
- Actual value and expiration date printed on the bottle
- Actual Value referred to N.I.S.T. Reference Material and expiration date reported on the certificate
- Certificates available at our website

## Redox Standards

- For ORP electrode test

## Buffer solutions

- 250 ml and 500 ml ergonomic bottle with built-in dosing compartment and value table depending on temperature for an accurate calibration
- Economical, using just the proper amount per calibration
- Coloured for an easier identification
- Immune to micro-organisms
- Actual value and expiration date printed on the bottle
- Actual Value referred to N.I.S.T. Reference Material and expiration date reported on the certificate
- Certificates available at our website

CONDUCTIVITY STANDARDS			
Part No.	Package	Value $\mu\text{S/cm}$ (20°C / 25°C)	Accuracy
51100613	500 ml	76 / 84	$\pm 1\%$
51100633	500 ml	1278 / 1413	$\pm 1\%$
51100643	500 ml	11670 / 12880	$\pm 1\%$

REDOX STANDARDS			
Part No.	Package	mV value	Accuracy
51100303	250 ml	Redox/ORP 200mV/25°C	$\pm 5\text{mV}$
51100313	250 ml	Redox/ORP 475mV/25°C	$\pm 5\text{mV}$
51100323	500 ml	Redox/ORP 475mV/25°C	$\pm 5\text{mV}$
51100333	5 l	Redox/ORP 650mV/25°C	$\pm 5\text{mV}$

pH BUFFERS				
Part No.	Package	pH Value (25°C)	Accuracy	Colour
51100033	250 ml	4,01	$\pm 0,01$	Red
51100043	250 ml	7,00	$\pm 0,01$	Green
51100053	250 ml	9,00	$\pm 0,02$	Blue
51100073	250 ml	9,21	$\pm 0,02$	Blue
51100063	250 ml	10,01	$\pm 0,02$	Colourless
51100133	500 ml	4,01	$\pm 0,01$	Red
51100143	500 ml	7,00	$\pm 0,01$	Green
51100153	500 ml	9,00	$\pm 0,02$	Blue
51100173	500 ml	9,21	$\pm 0,02$	Blue
51100163	500 ml	10,01	$\pm 0,02$	Colourless
51100233	5 l	4,01	$\pm 0,01$	Red
51100243	5 l	7,00	$\pm 0,01$	Green
51100253	5 l	9,00	$\pm 0,02$	Blue
51100273	5 l	9,21	$\pm 0,02$	Blue
51100263	5 l	10,01	$\pm 0,02$	Colourless



Lot number, Actual Value and expiration date reported on the bottle



Value table depending on temperature and QR Code with link to our website



Fill calibration compartment



Calibrate electrode



Empty calibration compartment



GUARANTEED BY:

**GIORGIO BORMAC**  
S.r.l.



**ISO 9001**  
CERTIFIED



DISTRIBUTED BY:

