

# 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 guarantees an impeccable calibration.



**PROFESSIONAL**

### **XS PROFESSIONAL** **ASSURANCE AND ACCREDITATION**

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.



**BASIC**

### **XS BASIC** **TRACEABILITY AND RELIABILITY**

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 (ACCREDIA equivalent).  
The Certificate is available on our website: [www.xsinstruments.com](http://www.xsinstruments.com)

## ○ BOTTLE 250 ml

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

## ○ BOTTLE 500 ml

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

# XS PROFESSIONAL COND

With DFM (Accredia equivalent) and N.I.S.T traceability,  
The Certificate is available on our website: [www.xsinstruments.com](http://www.xsinstruments.com)



## ○ BOTTLE 280 ml Glass

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

## ○ BOTTLE 500 ml with built-in calibration compartment

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

# XS BASIC

## BUFFER SOLUTIONS IN SACHETS

WITH N.I.S.T. TRACEABILITY.



### ○ SINGLE BUFFER

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

### ○ CALIBRATION SET

Name	Description	p/n
<b>SET CAL pH BIS</b>	Pack of 20 sachets 25ml (10 x pH 4.01 and 10 x pH 7.00)	51102203
<b>SET CAL pH BIS</b>	Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x pH 10.01)	51102213
<b>SET CAL COND</b>	Pack of 20 sachets 25ml (10 x EC 1.413 µS and 10 x EC 12.880 µS)	51102223
<b>SET CAL PC</b>	Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x EC 1.413 µS)	51102233
<b>REPLACEMENT pH</b>	Pack of 20 sachets 25ml (6 x pH 4.01, 6 x pH 7.00, 6 x H2O distilled water and 2x Storage 10 ml)	51102243
<b>REPLACEMENT COND</b>	Pack of 20 sachets 25ml (7 x EC 1.413 µS, 7 x EC 12.880 and 6 x H2O distilled water)	51102253
<b>REPLACEMENT PC</b>	Pack of 20 sachets 25ml (5 x pH 4.01, 5 x pH 7.00, 5 x 1.413 µS, 3 x H2O distilled water and 2 x Storage 10 ml)	51102263

BUFFER SOLUTIONS

## DISPOSABLE BOTTLE 55 ml



Name	Description	p/n
<b>pH 4,01</b>	±0,02 / 25°C - Red	32383123
<b>pH 7,00</b>	±0,02 / 25°C- Green	32383133
<b>pH 9,00</b>	±0,02 / 25°C- Blue	32383143
<b>pH 10,00</b>	±0,02 / 25°C- - Uncoloured	32382903
<b>465 mV</b>	± 5mV / 25°C- Yellow	32383163
<b>475 mV</b>	± 5mV / 25°C- Yellow	32383153
<b>EC 84 µS/cm</b>	± 1% / 25°C - Uncoloured	60000613
<b>EC 1413 µS/cm</b>	± 1% / 25°C - Uncoloured	60000423
<b>EC 12880 µS/cm</b>	± 1% / 25°C - Uncoloured	60000433

# pH BUFFERS

With N.I.S.T traceability.

The Certificate is available on our website: [www.xsinstruments.com](http://www.xsinstruments.com)



## ○ BOTTLE 250 ml with built-in calibration compartment

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

## ○ BOTTLE 500 ml with built-in calibration compartment

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



## ○ POLITAINER 5000 ml (5 L)

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

# CONDUCTIVITY STANDARD

With N.I.S.T traceability and certificate downloadable from our website: [www.xsinstruments.com](http://www.xsinstruments.com)

## ○ BOTTLE 280 ml glass

Name	Description	p/n
<b>1,3 µS/cm</b> (25°C)	N.I.S.T. Accuracy ±0,1µS	51100503
<b>5,0 µS/cm</b> (25°C)	N.I.S.T. Accuracy ±0,1µS	51100513



## ○ BOTTLE 500 ml with built-in calibration compartment

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



# REDOX / ORP STANDARD

Name	Description	p/n
<b>200 mV</b> (25°C)	± 5mV Bottle 250 ml	51100303
<b>465 mV</b> (25°C)	± 5mV Bottle 55 ml	32383163
<b>475 mV</b> (25°C)	± 5mV Bottle 250 ml	51100313
<b>475 mV</b> (25°C)	± 5mV Bottle 500 ml	51100323
<b>650 mV</b> (25°C)	± 5mV Politainer 5 l	51100333

BUFFER SOLUTIONS

# CLEANING AND MAINTENANCE SOLUTIONS

Name	Pack	p/n
Solution 3M KCL	55 ml	32208003
Solution 3M KCL	500 ml	32208013
Solution GLYCERIN-KCl	55 ml	32208023
Solution KNO <sub>3</sub> 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](http://www.xsinstruments.com)