



# Laboratory

INSTRUMENT & SENSOR SOLUTIONS



a xylem brand

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Thank you for your interest in YSI instrumentation. This catalog provides an overview of our extensive range of laboratory benchtop instrumentation - from single parameter to multiparameter and analog to digital instruments. We offer a wide range of pH and ion-selective electrodes (ISEs) as well as conductivity and BOD sensors. You will also find information on our available resources including measurement handbooks and instrument selection guides. No matter your laboratory application - from drinking water to wastewater and from food & beverage to environmental labs, we have a solution to meet your requirements.

With over 65 years of experience with analytical instrumentation, our customers have come to rely on YSI meters that are easy-to use and provide trouble-free, repeatable measurements in the lab. By partnering with YSI, you will also benefit from access to our employees - knowledgeable, customer-focused technical and applications advisors committed to helping you get the best data possible.

Please contact me directly if you have any comments or feedback about our instrumentation or service. I truly value your input.

*Laura St. Pierre*

Laura St. Pierre  
WQS, Senior Product Manager



# Resources

## LINKS - HANDBOOKS AND GUIDES

[bit.ly/YSIpHbook](http://bit.ly/YSIpHbook) - pH Handbook

[bit.ly/DOhandbook](http://bit.ly/DOhandbook) - Dissolved Oxygen Handbook

[bit.ly/pHselectguide](http://bit.ly/pHselectguide) - Lab pH electrode selection guide

[bit.ly/pHappguide](http://bit.ly/pHappguide) - Lab pH electrode application guide

[bit.ly/pHcalguide](http://bit.ly/pHcalguide) - Lab and field pH electrode calibration guide

[bit.ly/DOCap](http://bit.ly/DOCap) - Changing a DO membrane cap

[bit.ly/EPAMethods](http://bit.ly/EPAMethods) - EPA approved methods available with YSI instrumentation

## LINKS - SPECIFICATIONS

[bit.ly/MultiLab](http://bit.ly/MultiLab) - MultiLab video spec sheet

[bit.ly/MultiLabspecs](http://bit.ly/MultiLabspecs) - MultiLab specs

[bit.ly/TruLabvideospecs](http://bit.ly/TruLabvideospecs) - TruLab video spec sheet

[bit.ly/TruLab1320](http://bit.ly/TruLab1320) - TruLab 1320 specs

[bit.ly/TruLab1310](http://bit.ly/TruLab1310) - TruLab 1310 specs

[bit.ly/TruLab1110](http://bit.ly/TruLab1110) - TruLab 1110 specs

[bit.ly/Colorimetrycatalog](http://bit.ly/Colorimetrycatalog) - Single and multiparameter colorimeters

[bit.ly/3100and3200specs](http://bit.ly/3100and3200specs) - 3100 and 3200 conductivity specs

[bit.ly/5000and5100specs](http://bit.ly/5000and5100specs) - 5000 and 5100 DO specs

[bit.ly/BODAPro](http://bit.ly/BODAPro) - BOD Analytst Pro specs



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# MultiLab



**MultiLab 4010-3**  
Three Channel

## Parameters

### 4010 - 2/3

- pH
- ORP
- DO/BOD (optical)
- Conductivity
- Temperature
- ISEs:\*
- Ammonia
- Ammonium
- Bromide
- Cadmium
- Calcium
- Chloride
- Copper
- Cyanide
- Fluoride
- Iodide
- Lead
- Nitrate
- Potassium
- Silver/Sulfide
- Sodium

\*Only with BNC adapter

The YSI MultiLab line includes the 4010-1 (single channel), 4010-2 (dual channel) and 4010-3 (three channel) instruments that provide easy-to-use and -calibrate menu-driven operation ideal for the laboratory.



### Sensors approved for wastewater and/or drinking water compliance reporting.

- |              |           |
|--------------|-----------|
| pH           | Chloride  |
| DO/BOD       | Cyanide   |
| Conductivity | Fluoride  |
| Temperature  | Nitrate   |
| Ammonia      | Potassium |
| Bromide      | Sulfide   |

Visit the link [bit.ly/EPAMethods](http://bit.ly/EPAMethods) for a complete list of parameters and the EPA approved methodology used.

### 4010-2/3

- Two (4010-2) or three (4010-3) channel input for pH, ORP, DO/BOD, ISEs, or conductivity
- Intelligent digital sensors (IDS) - plug and play sensors
- Use non-IDS (other manufacturer's) pH, ORP or ISE sensors with a simple BNC adapter
- Data storage - 500 data sets in manual mode and 10,000 data sets in automatic logging mode
- Large, easy-to-read graphic color displays
- GLP traceability (smart sensors store serial # and calibration data)
- Antibacterial keypad
- USB connectivity to manage data
- MultiLab Importer (Excel® add-in) included
- 3-year warranty

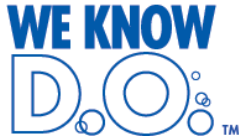
A BNC adapter is available that covers one of the digital inputs on the 4010-2/3 instruments. This allows for connection of pH electrodes and other ion selective electrodes (ISEs) that feature BNC connection.



[ysi.com/4010-2](http://ysi.com/4010-2)

[ysi.com/4010-3](http://ysi.com/4010-3)





### MultiLab 4010-1 Single channel

#### 4010(P)-1

- One-channel input for pH, ORP, DO/BOD, or conductivity
- Data storage - 500 data sets in manual mode and 5,000 data sets in automatic logging mode
- Large, easy-to-read graphic display
- Intelligent digital sensors (IDS) - plug and play sensors
- GLP traceability (sensors store serial # and calibration data)
- USB connectivity to manage data
- MultiLab Importer (Excel® add-in) included
- 3-year warranty
- Optional integrated printer for increased documentation capability

 [ysi.com/4010-1](http://ysi.com/4010-1)



#### Parameters

#### 4010 - 1

- pH
- ORP
- DO/BOD (optical)
- Conductivity
- Temperature



ProOBOD Probe



#### IDS

The IDS (intelligent digital sensors) automatically store their unique serial number and calibration data. In addition, they also digitally process the measurement signal. The sensors can be moved from instrument to instrument and maintain their calibration data and transmit this information to the new instrument.

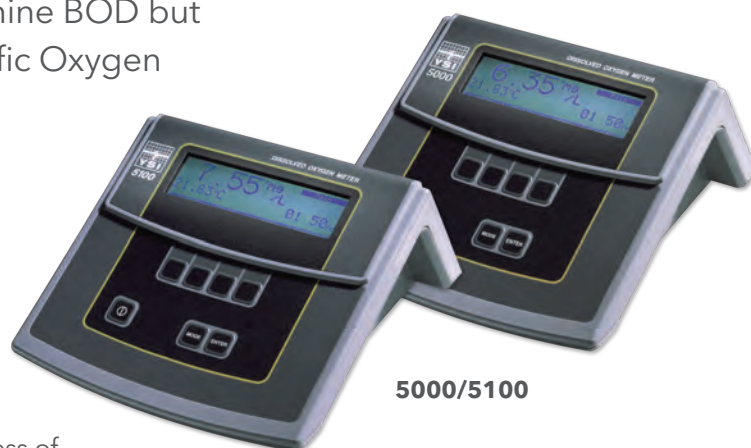
- IDS sensors store their own unique ID with serial number and calibration data
- Digital sensor recognition, processing and data transfer
- Includes pH, ORP, conductivity and self-stirring BOD sensors
- BOD probe uses optical dissolved oxygen technology and includes a guarded sensor tip

# 5000/5100

## Parameters

DO/BOD  
(electrochemical)  
Temperature

Ease of use, data integrity, expanded range, enhanced digital capabilities – the YSI 5000 Series is engineered to meet the need of highly accurate, reliable dissolved oxygen measurements, primarily to determine BOD but also Oxygen Uptake Rate (OUR) and Specific Oxygen Uptake Rate (SOUR).



## YSI 5000/5100 DO Meters

The YSI **5000** features menu-driven operation and a large LCD. Internal memory for 100 data sets with date/time stamp eliminates the need for manual entry of readings. Auto calibration is as simple as the press of a button. Multitasking is enhanced with the auto-stabilization capability, which enables you to predetermine a stable reading and be alerted to that condition.

The full-featured YSI **5100** instrument offers even greater performance and flexibility including built-in software for OUR/SOUR (oxygen uptake rate and specific oxygen uptake rate) measurement and one step calibrations with no charts or pressure look-ups.

- Stores 100 data sets
- PC interface
- Large graphic display and keyboard profile
- Bar code compatible\*
- Built-in barometer for auto-calibration\*
- On-board software for OUR/SOUR measurement\*

\* Only available on the YSI 5100



5010 BOD Probe

## YSI 5010 Self-Stirring BOD Probe

The YSI 5010 provides continuous stirring for accurate measurement and faster response time. International BOD probes are available. Contact YSI for more information.

5905 BOD probes will work with a 5011 adapter (all probes and adapters are ordered separately)

 [ysi.com/5100](http://ysi.com/5100)

 [ysi.com/5000](http://ysi.com/5000)



# TruLab



## Parameters

**1110, 1310P & 1310**

pH  
mV (ORP/Redox)  
Temperature



TruLab 1310

## 1110 and 1310/1310P Single Channel Benchtop Meters

Ideal laboratory instruments for basic, routine pH/mV measurements in the lab. The pH 1110 is an accurate, easy-to-use instrument for repeatable pH or mV measurements in the laboratory. The 1310/1310P offers pH/mV measurements with automatic documentation for GLP compliance.



TruLab 1110

### TruLab pH 1110

- Single channel measurement of pH or mV (ORP) and temperature.
- AutoRead function improves repeatability
- Easy-to-read, segmented display
- Easy calibration / adjustable calibration timer
- 1, 2 or 3-point calibration for pH
- BNC input; connect any pH/ORP electrode featuring BNC connection
- 3-year warranty
- Wide selection of electrodes - pH, ORP and temperature probes

### TruLab pH 1310/1310P

- Single channel measurement of pH or mV (ORP) and temperature.
- Easy-to-read backlit graphic display with text menu for easy operation
- Fast data transfer via USB in .csv or ASCII format; optional integrated printer
- MultiLab Importer (Excel® add-in) included
- Continuous Monitoring Control (CMC) function for monitoring the ideal measuring range for pH measurements based on the last calibration
- 1, 2, 3, 4 or 5 point calibration for pH
- 22 stored buffer sets for auto-buffer recognition and easy calibration
- BNC input; connect any pH/ORP electrode featuring BNC connection
- 3-year warranty
- GLP/AQA compliant
- Wide selection of electrodes - pH, ORP and temperature probes

 [ysi.com/1110](http://ysi.com/1110)

 [ysi.com/1310](http://ysi.com/1310)





**TruLab 1320**



**TruLab 1320P**

### 1320/1320P Dual Channel Benchtop Meter

The 1320 benchtop is an accurate, easy-to-use solution for the measurement of pH/mV/ISE in the laboratory. The 1320 has internal memory and stored data can be sent to a PC via USB. An optional built-in printer is available with the 1320P.

- Simultaneous dual measurement of pH, mV (ORP) or ISE and temperature (2-channel benchtop meter)
- Easy-to-read backlit display with text menu for easy operation
- Fast data transfer via USB in .csv or ASCII format; optional integrated printer
- MultiLab Importer (Excel® add-in) included
- Continuous Monitoring Control (CMC) function for monitoring the ideal measuring range for pH measurements based on the last calibration
- 1, 2, 3, 4 or 5 point calibration for pH
- 2, 3, 4, 5, 6 or 7 point calibration for ISE, also non-linear
- Built-in ISE measurement methods (standard addition, standard subtraction, and others)
- Direct readout of effective ion concentration
- BNC input; connect any pH/ORP/ISE electrode featuring BNC connection
- 3-year warranty
- GLP/AQA compliant
- Wide selection of electrodes - pH, ORP, temperature, and ISEs

### Electrode Information

Multiple electrodes are available as part of the TruLine, Science, and IoLine family of sensors. In addition, the 1320 and 1320P instruments can use any of the 15 accurate, lab-grade TruLine ISEs.

### Parameters

#### 1320P & 1320

pH\*  
mV (ORP/Redox)  
Temperature\*

#### ISEs:

Ammonia\*  
Ammonium  
Bromide\*  
Cadmium  
Calcium  
Chloride\*  
Copper  
Cyanide\*  
Fluoride\*  
Iodide  
Lead  
Nitrate\*  
Potassium\*  
Silver/Sulfide\*  
Sodium

\* EPA approved sensors for wastewater and/or drinking water compliance reporting.



Visit the link [bit.ly/EPAMethods](https://bit.ly/EPAMethods) for a complete list of parameters and the EPA approved methodology used.

# TruLine ISEs



## Parameters

Ammonia\*  
Ammonium  
Bromide\*  
Cadmium  
Calcium  
Chloride\*  
Copper  
Cyanide\*  
Fluoride\*  
Iodide  
Lead  
Nitrate\*  
Potassium\*  
Silver/Sulfide\*  
Sodium

\* EPA approved sensors for wastewater and/or drinking water compliance reporting.



TruLine Family of ISEs



Ammonia ISE

The TruLine series of combination ISEs is designed to meet the most demanding challenges of determining effective ion concentration in the laboratory setting. The TruLine ISEs can be connected to the YSI TruLab 1320(P), the YSI MultiLab 4010-2/3 (with BNC adapter) and other ISE instruments that feature BNC connection. The TruLine ISEs are refillable and feature a built-in double-junction reference system, allowing for a long electrode life and optimum performance in the lab.

- Wide selection of 15 electrodes for 16 different parameters
- 4 sensor technologies - gas sensing, polymer/PVC membrane, solid state, glass sensor
- Integrated reference (i.e. combination ISE)
- BNC connection, 3 ft cable
- Made in the USA
- Reference/electrode fill solution, ISAs, and standards available
- 12 month warranty for solid state, glass sensor, & gas-sensing ISEs
- 9 month warranty for ISEs with polymer/PVC membrane

# pH Electrodes



**TruLine Electrodes**

## TruLine

- Designed for use in typical laboratory applications
- Single-junction electrodes with Ag/AgCl reference system
- Integrated temperature sensor option
- Durable electrodes with gel electrolyte for general use; liquid electrolyte sensors for more critical measurements
- Electrodes with special membranes for unique applications
- BNC connector; compatible with any pH meter that has a BNC input



**IoLine Electrodes**

## IoLine

- Designed for use in Tris Buffer and protein solutions - unique iodine/iodide reference system prevents clogging of the junction
- Reference system and the platinum junction provide excellent stability, fast response times, and high accuracy
- Triple junction design increases measurement security
- Available in a micro version for small sample sizes
- Useful in nearly any application and at a wide-range of temperatures
- BNC connector; compatible with any pH meter that has a BNC input



**Science Electrodes**

## Science

- Designed for use in unique applications that require a particular junction
- Features the Silamid reference system, a unique construction of the Ag/AgCl reference system resulting in a more stable and longer lasting electrode with a fast response
- Double-junction reference and integrated temperature sensor
- Ground-joint junction with a fast electrolyte outflow is specifically designed for samples high in solids or with low ionic strength
- Platinum junction for applications that do not require a rate of electrolyte outflow as fast as the ground-joint
- BNC connector; compatible with any pH meter that has a BNC input



# pH1000A

- Measures pH, mV (ORP), and temperature
- Large, high-contrast, LCD display
- Simple 1, 2, or 3 point calibration
- AUTOLOCK mode holds stable readings on the display
- Accepts U.S. (7.00, 4.01, 10.01) or NIST (6.86, 4.00, 9.18) buffer sets
- Automatic or manual temperature compensation of all pH measurements
- Calibration is stored in memory; view electrode efficiency at any time
- BNC input allows for any pH or ORP electrode with BNC to be connected\*
- Battery or AC power

\* If not using the 1102 pH electrode with a built-in temperature sensor, the 1103 temperature sensor will need to be used for automatic temperature compensation.



## Parameters

pH  
mV  
Temperature



 [ysi.com/pH1000A](https://www.ysi.com/pH1000A)

The pH1000A benchtop instrument is an economical, accurate and easy-to-use solution for basic, routine pH or mV measurements in the lab. The AUTOLOCK feature locks stable measurements on the display, resulting in precise, repeatable, and error-free measurements. Simple calibration procedures, automatic buffer recognition, and electrode efficiency display makes calibration quick and easy.

# 3100/3200

## Parameters

Conductivity/  
Specific conductance  
Salinity | TDS | Resistivity  
Temperature

With the YSI 3200, get unmatched accuracy for ultrapure water in demanding applications such as pharma and clean rooms. Multi-point calibration allows you to measure a variety of samples with one cell. Features alarms and Resistance Ratio Technology® that continually compare against a reference.

Uses NIST-traceable cells with built-in temperature sensors, assuring the most accurate measurements.

The simpler, 3100 conductivity instrument is also available.



- Provides highest-accuracy measurements
- Uses Resistance Ratio technology
- Easy-to-read display
- CE compliant

 [ysi.com/3200](https://www.ysi.com/3200)

 [ysi.com/3100](https://www.ysi.com/3100)



# pHotoFlex Colorimeters



## pHotoFlex standard

Ideal solution for quick, simple, accurate colorimeter measurements for approximately 85 tests



## YSI pHotoFlex® Colorimeters Portable Colorimeters for Lab and Field

These rugged, waterproof, multiparameter colorimeters are ideal for laboratory and field testing. The instruments feature a large, backlit display; waterproof rating; data logging with the ability to export data to a computer using LSdata software; user-defined programs; and a 2-year warranty.

- Calibration adjustment for selected methods
- Data storage; 100 data sets with pHotoFlex STD and 1,000 data sets with pHotoFlex pH
- Large, easy-to-read backlit LCD display
- IP67 waterproof case; easy to hold or set on a benchtop (lab station also available)
- Flexible, fixed adapter for various cell types features a flip design to accommodate a variety of heights and diameters; it is also attached to prevent it from being lost
- ~138 tests (pHotoFlex pH); ~85 tests (pHotoFlex STD)
- PC connectivity to manage data (optional LSdata software) and update firmware or methods; barcode compatibility
- pHotoFlex pH offers a BNC connection in order to take pH measurements directly and to measure the pH dependent parameter  $\text{NH}_3$
- Compatible with other manufacturer's chemistries/reagents
- Follows EPA approved methodology for the measurement of Free and Total Chlorine (DPD), as well as pH (pHotoFlex pH only)



The pHotoFlex pH colorimeter allows for the connection of an external pH sensor. Not only does this allow for pH measurements but also a true ammonia reading directly compensating for accurate pH and temperature readings. **No other colorimeter has this capability.**

## pHotoFlex pH

Ideal solution for quick, simple, accurate colorimeter measurements for approximately 135 tests

# 900/910 Colorimeters

## 900 Chlorine

Ideal solution for quick, simple, accurate chlorine measurements



The 900 Chlorine colorimeter is the simplest, easiest way to gather accurate chlorine data.

- Quickly, easily, and accurately measure Free and Total Chlorine
- Automatic Data Storage; 16-data sets with date and time stamp. Export data with the 900 Series Data Hub infrared data transfer.
- Large, easy-to-read backlit LCD display
- IP68 waterproof case; easy to hold or set on a benchtop
- Innovative light shield avoids moving parts or separate pieces that can easily be broken or lost.
- User-calibration to any government or organizational standard (for example, N.I.S.T. or ISO).
- Resolution can be changed for specific range requirements
- 2-year warranty
- Includes 100 each Free and Total Chlorine powder packs



The 910 instrument features a large, backlit display; a real-time clock; automatic data logging; as well as the ability to export data to a computer or printer using the 900 Series Data Hub for infrared data transfer.

- Quickly, easily, and accurately measure COD
- Easy-to-open and easy-to-handle powder packs
- IP68 waterproof case; easy to hold or set on a benchtop
- Factory calibrated; User-calibration possible
- 2-year warranty
- Hg free reagents also available

YSI offers a used COD vial program to properly dispose of empty vials. Contact YSI for more information.



## 910 COD

Ideal solution for simple, accurate COD measurements

## CR 3200 COD Thermoreactor

YSI offers 3 separate thermoreactors



## Colorimetry Reagents (900, 910, pHotoFlex)

Item	Part #	Description	Range
Aluminum Al-1 TP	251400Y	Powder, pack of 100	0.002 to 0.250 mg/L
Ammonium NH4-1 TP	251408Y	Nitrogen, Ammonia, powder, pack of 100	0.01 to 0.50 mg/L NH <sub>4</sub> -N; 0.01 to 0.64 NH <sub>4</sub> ; NH <sub>3</sub> -N
Ammonium NH4-2 TC (LR)	251997Y	Nitrogen, Ammonia Low Range, vial, pack of 50	0.02 to 2.50 mg/L NH <sub>4</sub> -N; 0.03 to 3.20 mg/L NH <sub>4</sub>
Ammonium NH4-3 TC (HR)	251998Y	Nitrogen, Ammonia High Range, vial, pack of 50	0.4 to 50.0 mg/L NH <sub>4</sub> -N; 0.5 to 64.4 mg/L NH <sub>4</sub> ; NH <sub>3</sub> -N
Chlorine Cl2-1 TP	251401Y	DPD, Chlorine, Free, powder, 10 mL, pack of 100	0.02 to 2.00 mg/L
Chlorine Cl2-2 TP	251402Y	DPD, Chlorine, Free, powder, 20 mL, pack of 100	0.5 to 5.0 mg/L
Chlorine Cl2-3 TP	251414Y	DPD, Chlorine, Total, powder, 10 mL, pack of 100	0.02 to 2.00 mg/L
Chlorine Cl2-4 TP	251415Y	DPD, Chlorine, Total, powder, 25 mL, pack of 100	0.5 to 5.0 mg/L
Chlorine Cl2T1 TT (LR)	251600Y	DPD, Chlorine, Free, No.1 Low Range, tablet, pack of 100	0.01 to 6.0 mg/L
Chlorine Cl2T2 TT (LR)	251601Y	DPD, Chlorine, Free, No.3 Low Range, tablet, pack of 100	0.11 to 6.0 mg/L
Chlorine Cl2T3 TT (HR)	251602Y	DPD, Chlorine, Free, No.1 High Range, tablet, pack of 100	0.1 to 10 mg/L
Chlorine Cl2T4 TT (HR)	251603Y	DPD, Chlorine, Free, No.3 High Range, tablet, pack of 100	0.1 to 10 mg/L
COD1 TC (LR)	251990Y	COD Low Range, vial, pack of 25	3 to 150 mg/L CSB (148°C / 298°F, 2 hrs)
COD1-F TC (LR)	251986Y	COD Low Range, Hg free, vial, pack of 25	0 to 150 mg/L
COD2 TC (MR)	251991Y	COD Mid Range, vial, pack of 25	20 to 1,500 mg/L CSB (148°C / 298°F, 2 hrs)
COD2-F TC (MR)	251985Y	COD Mid Range, Hg free, vial, pack of 25	0 to 1,500 mg/L
COD3 TC (HR)	251992Y	COD High Range, vial, pack of 25	200 to 15,000 mg/L CSB (148°C / 298°F, 2 hrs)
COD3-F TC (HR)	251984Y	COD High Range, Hg free, vial, pack of 25	0 to 15,000 mg/L
Copper Cu-1 TP	251403Y	Copper, Powder, pack of 100	0.5 to 12.00 mg/L
DEHA1 TP	251421Y	Oxygen Scavenger DEHA1, powder, pack of 100	0.004 to 0.450 mg/L
Iron Fe-1 TP	251404Y	Iron, Total, Low Range, powder, pack of 100	0.012 to 1.800 mg/L
Iron Fe-2 TP	251405Y	Iron, Total, powder, pack of 100	0.02 to 3.00 mg/L
Manganese Mn-1 TP	251406Y	Manganese High Range, powder, pack of 100	0.2 to 20.0 mg/L
Manganese Mn-2 A1	251417A1	Rochelle salt, liquid, 30 mL	Used with LR (251417Y) Manganese if sample has 300 mg/L CaCO <sub>3</sub> hardness
Manganese Mn-2 A2	251417A2	Rochelle salt, liquid, 500 mL	Used with LR (251417Y) Manganese if sample has 300 mg/L CaCO <sub>3</sub> hardness
Manganese Mn-2 TP	251417Y	Manganese Low Range, powder, pack of 50	0.007 to 0.700 mg/L
Molybdate Mo-1 TP	251407Y	Molybdate, powder, 10 mL, pack of 100	0.3 to 35.0 mg/L
Molybdate Mo-2 TP	251418Y	Molybdate, powder, 25 mL, pack of 100	0.3 to 40.0 mg/L
N2H41 TR	251416Y	Hydrazine, 100 mL for 50 tests	0.004 to 0.600 mg/L
Nitrate NO3-1 TC	251993Y	Vial, pack of 50 for 25 tests	0.2 to 30.0 mg/L NO <sub>3</sub> -N; 1.0 to 133.0 mg/L NO <sub>3</sub>
Nitrite NO2-1 TP	251409Y	Low Range, powder, 10 mL, pack of 100	0.002 to 0.300 mg/L NO <sub>2</sub> -N; 0.007 to 0.985 mg/L NO <sub>2</sub>
Nitrite NO2-2 TC	251994Y	Vial, pack of 24	0.03 to 0.60 mg/L NO <sub>2</sub> -N (LR); 0.10 to 1.97 mg/L NO <sub>2</sub> 0.30 to 3.00 mg/L NO <sub>2</sub> -N (HR); 0.99 to 9.85 mg/L NO <sub>2</sub>
Nitrite NO2-3 TP	251420Y	LR, powder, 25 mL, pack of 100	0.002 to 0.300 mg/L NO <sub>2</sub> -N; 0.007 to 0.985 mg/L NO <sub>2</sub>
Nitrogen Ntot1 TC (LR)	251995Y	Nitrogen LR, Total, vial, pack of 50 for 25 tests	0.5 to 25.0 mg/L (Digestion 120°C / 248°F, 30 min)
Nitrogen Ntot2 TC (HR)	251996Y	Nitrogen HR, Total, vial, pack of 50 for 25 tests	10 to 150 mg/L (Digestion 120°C / 248°F, 30 min)
Phosphate PO4-1 TP	251410Y	Phosphate (Orthophosphate), powder, pack of 100	0.007 to 0.800 mg/L PO <sub>4</sub> -P; 0.02 to 2.45 mg/L PO <sub>4</sub>
Phosphate PO4-2 TP	251989Y	Phosphate Reactive (Orthophosphate), vial, pack of 100	0.06 to 5 mg/L PO <sub>4</sub> ; 0.02 to 1.63 mg/L PO <sub>4</sub> -P
Phosphate PO4-3 TC	251988Y	Phosphorus, Total, vial, pack of 50	0.06 to 3.4 mg/L PO <sub>4</sub> ; 0.02 to 1.141 mg/L (Digestion 100°C / 212°F)
Phosphate PO4-4 TC	251987Y	Phosphorus, Acid hydrolyzable, vial, pack of 50	0.06 to 3.5 mg/L PO <sub>4</sub> ; 0.02 to 1.141 mg/L (Digestion 100°C / 212°F)
Silica Si-1 TP (LR)	251411Y	Silica Low Range, powder, pack of 100	0.01 to 1.6 mg/L SiO <sub>2</sub> ; 0.005 to 0.748 Si
Silica Si-2 TP (HR)	251412Y	Silica High Range, powder, pack of 100	0.7 to 70.0 mg/L SiO <sub>2</sub> ; 0.3 to 3.27 mg/L Si w/ 28 mm cell; 1 to 100 mg/L SiO <sub>2</sub> ; 0.5 to 46.7 mg/L Si w/ 16 mm cell
Silica Si-3 TP	251422Y	Silica Ultra High Range, powder, pack of 100	1 to 75 mg/L SiO <sub>2</sub> ; 0.5 to 35.1 mg/L Si
Sulfate SO4-1 TP	251413Y	Sulfate, powder, 10 mL, pack of 100	0 to 70 mg/L SO <sub>4</sub>
Sulfate SO4-2 TP	251423Y	Sulfate, powder, 25 mL, pack of 100	2 to 70 mg/L SO <sub>4</sub>

Additional Chlorine, along with Potassium iodide and Sulfamic acid for other manufacturer's colorimeters also available. Contact us to learn more.

## Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services, and agricultural settings. With its October 2016 acquisition of Sensus, Xylem added smart metering, network technologies and advanced data analytics for water, gas and electric utilities to its portfolio of solutions. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to [xylem.com](http://xylem.com)



Who's  
Minding  
*the* Planet?

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