



Division of Water  
 City of Columbus  
 Public Utilities Department  
 910 Dublin Road  
 Columbus, Ohio 43215  
 Tel. -

**Quote:** #103856-6  
**Contact:** Paul Nieberding  
**Email:** paul.nieberding@fondriest.com  
**Date:** 09/19/23  
**Expires:** 12/18/23

Part #	Manufacturer	Description	Price	Qty	Total
<b>Pontoon Profiler</b>					
202341	YSI ISS	Pontoon Platform, 6'x12'	\$12,289.00	1	\$12,289.00
200102	YSI ISS	Profiler Power Assembly	\$1,685.00	1	\$1,685.00
200196	YSI ISS	Pontoon Profiler Power Upgrade; (2x) 60 Watt Panels, (2x) Mounts, (1x) Solar Reg, (1x) 12v/100ah Battery	\$4,610.00	1	\$4,610.00
200140	YSI ISS	T-Frame Assembly	\$11,978.00	1	\$11,978.00
6980	YSI ISS	6980 Winch Controller, CR1000	\$14,715.00	1	\$14,715.00
669501	YSI ISS	Vertical Profiler Winch Assembly, 53 Meter	\$15,666.00	1	\$15,666.00
669553	YSI ISS	Profiler Cable, Non Vented, 53 Meter	\$1,325.00	1	\$1,325.00
5601100-00	YSI ISS	Sierra Wireless RV50X Airlink Modem	\$1,065.00	1	\$1,065.00
202016	YSI ISS	EMM Buoy Cellular Antenna	\$3,037.00	1	\$3,037.00
200104	YSI ISS	Depth Sounder Option	\$3,480.00	1	\$3,480.00
202280	YSI ISS	M650 solar marine light	\$669.00	1	\$669.00
200072	YSI ISS	LoggerNet Software	\$916.00	1	\$916.00
669683	YSI ISS	Profiler Wizard Software	\$137.00	1	\$137.00
HYP-SW-TERM-ISS-VIPER-BASIC	YSI ISS	HYPACK ViPer visualization profiler software	\$680.00	1	\$680.00
202141	YSI ISS	Pontoon Shipping Crate	\$769.00	1	\$769.00
202146	YSI ISS	Profiler T-Frame Shipping Crate	\$399.00	1	\$399.00
<i>Subtotal</i>					\$73,420.00
<b>EXO2 Sonde</b>					
351060	YSI ISS	EXO Link Adapter	\$2,185.00	1	\$2,185.00
599502-02	YSI	EXO2 multi-parameter water quality sonde with 6 sensor ports & 1 wiper port, 100m depth sensor	\$7,490.00	1	\$7,490.00
599090-01	YSI	EXO central wiper	\$1,320.00	1	\$1,320.00
599827	YSI	EXO wiped conductivity & temperature sensor	\$1,785.00	1	\$1,785.00

Part #	Manufacturer	Description	Price	Qty	Total
577612	YSI	EXO unguarded pH/ORP sensor	\$735.00	1	\$735.00
599100-01	YSI	EXO optical dissolved oxygen sensor	\$2,100.00	1	\$2,100.00
599101-01	YSI	EXO turbidity sensor	\$1,950.00	1	\$1,950.00
599102-01	YSI	EXO freshwater total algae sensor (chlorophyll & phycocyanin)	\$3,675.00	1	\$3,675.00
<i>Subtotal</i>					<i>\$21,240.00</i>
<b>2-Point Mooring Hardware</b>					
A-3-RED	NexSens	Red mooring & marker buoy, 18.5" diameter, 121 lb. buoyancy	\$140.00	2	\$280.00
SS187-10	NexSens	Custom built 3/16" vinyl coated SS mooring line, 10'	\$115.00	2	\$230.00
SS187-100	NexSens	Custom built 3/16" vinyl coated SS mooring line, 100'	\$250.00	2	\$500.00
SSPA500i-BOW	NexSens	Stainless steel bow shackle, 1/2"	\$26.00	4	\$104.00
SSPA625i-BOW	NexSens	Stainless steel bow shackle, 5/8"	\$52.00	4	\$208.00
HGPC500i	NexSens	Galvanized chain, 1/2", priced per ft.	\$10.00	20	\$200.00
DOR135	NexSens	Pyramid anchor, 135 lb.	\$815.00	2	\$1,630.00
<i>Subtotal</i>					<i>\$3,152.00</i>
<b>Freight Estimate</b>					
Freight	Fondriest	Freight	\$3,000.00	1	\$3,000.00
<i>Subtotal</i>					<i>\$3,000.00</i>
<b>On-Site Engineering Services</b>					
370442	YSI ISS	On-Site Field Engineering Services, one engineer on-site for 3 days, includes all travel expenses	\$6,870.00	1	\$6,870.00
<i>Subtotal</i>					<i>\$6,870.00</i>

**Send Purchase Order To:**

Fondriest Environmental, Inc.  
2091 Exchange Court  
Fairborn, OH 45324  
**Phone:** (888) 426-2151  
**Fax:** (937) 426-1125  
**Email:** [customercare@fondriest.com](mailto:customercare@fondriest.com)

Subtotal: \$107,682.00

Tax: \$0.00

Shipping: \$0.00

**Total: \$107,682.00**

**Delivery:** 16-20 weeks ARO  
**FOB Point:** Destination  
**Freight:** Truck Freight  
**Terms:** Net 30 w/ approved credit  
Visa, MC, AMEX, Discover  
**Late Payments:** 1.5% interest per month.  
3% surcharge for late payments  
made with credit card

**City of Columbus, Department of Public Utilities  
Division of Water  
Water Quality Profiler System**

**REFERENCES**

The bidder must briefly document its capabilities and submit an outline of its experience and work history in water quality profiler systems and warranty service for the past five years by submitting the contact information of References from four (4) separate equipment sales. References should consist of projects of a similar scope, complexity, and cost.

Business Name: City of Columbus Tel #. 614 - 645-7691

Address: 910 Dublin Road, Columbus, OH 43215

E-mail Address: mrgilkerson@columbus.gov Fax #.            -           

Contact: Michele Gilkerson Equipment purchase date: 2015 to Present

**Equipment Provided/ Warranty Service Performed:**

Supply YSI parts and services, perform warranty and non-warranty repairs as needed.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Business Name: U S Army Corps of Engineers Tel #. 412 - 395-7647

Address: 1000 Liberty Avenue, Pittsburgh, PA 15222

E-mail Address: carl.j.nim@usace.army.mil Fax #.            -           

Contact: Carl Nim Equipment purchase date: 2002 to Present

**Equipment Provided/ Warranty Service Performed:**

Perform annual service on YSI multi-parameter sondes; supply new equipment and parts as  
needed; perform on-site maintenance on water temperature profiling buoys.  
\_\_\_\_\_  
\_\_\_\_\_

**City of Columbus, Department of Public Utilities  
Division of Water  
Water Quality Profiler System**

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Business Name: NOAA Tel #. 734 - 741-2336

Address: 4840 S State Road, Ann Arbor, MI 48108

E-mail Address: steve.constant@noaa.gov Fax #. \_\_\_\_\_ - \_\_\_\_\_

Contact: Steve Constant Equipment purchase date: 2004 to Present

Equipment Provided/ Warranty Service Performed:

Perform annual service on YSI multi-parameter sondes; supply new equipment and parts as needed.

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Business Name: U S Environmental Protection Agency Tel #. 513 - 569-7570

Address: 1003 US Highway 50, Milford, OH 45150

E-mail Address: macke.dana@epa.gov Fax #. \_\_\_\_\_ - \_\_\_\_\_

Contact: Dana Macke Equipment purchase date: 2005 to Present

Equipment Provided/ Warranty Service Performed:

Perform annual service on YSI multi-parameter sondes; supply new equipment and parts as needed.

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Kyle Waits  
YSI Incorporated  
1725 Brannum Lane, Yellow Springs, OH 45387  
Tel +1.937.767.7241



19 September 2023

Division of Water  
City of Columbus  
Public Utilities Department  
910 Dublin Road  
Columbus, Ohio 43215

Dear Addressee:

This letter is to advise you that YSI Incorporated, a wholly-owned subsidiary of Xylem Corporation, is the only manufacturer of the EXO Advanced Multi-Parameter Sondes (EXO1, EXO2 & EXO3) their compatible Sensors and Accessories. No other manufacturer in the world makes these EXO instruments. Also, no other manufacturer makes an instrument that is compatible with our sensors / probes.

Fondriest Environmental is the only authorized distributor for the selling the EXO Advanced Multi-Parameter Sondes and compatible Sensors and Accessories in Ohio, Indiana, Michigan, Kentucky, West Virginia, and western Pennsylvania. The contact for Fondriest Environmental is Mr. Paul Nieberding:

Phone: 937-426-2151  
Fax: 937-426-1125  
E-mail: [paul.nieberding@fondriest.com](mailto:paul.nieberding@fondriest.com)

Please contact this office if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'KWA', written in a cursive style.

Kyle Waits



# Vertical Profiling System

FOR CONTINUOUS MONITORING

# Why Profiling?

Profiling is the most cost-effective and accurate way to investigate the entire water column, by collecting multiparameter data points at pre-programmed depths. With YSI's automated profiling systems, you'll never miss an event and will reduce the time and money to monitor and react.

## YSI Profilers are used for applications such as:



Selecting the right intake depth in a drinking water reservoir



Understanding hypoxic events



Detecting point- and non-point-source pollutants



Evaluating the thermocline or pycnocline in a system



Early detection of harmful algal blooms

▲ YSI Fixed Vertical Profiler

Profilers are compatible with all YSI multiparameter water quality Sondes equipped with depth sensors.



[YSI.com/EXO](http://YSI.com/EXO)





**Every YSI Profiler is built to your specifications** using environmentally-ruggedized components of the highest quality. Important advantages of profiling systems include:



### Industry-Leading Technology

YSI's patented winch is rugged and non-corrosive, and ensures smooth and accurate lowering of the EXO sonde.



### Data Delivery

Send data to a base station computer, while the web-enabled option posts data directly to a public or private web site. Several wireless data transmission options available.



### Customizable Protocols

User-selectable sample intervals allow real-time monitoring to be customized to your needs.



### SCADA Integration

Deliver your fixed profiler data to your existing SCADA, using TCP/IP with Ethernet connections or a MODBUS RTU for serial connections.



### Rugged Build

NEMA4X enclosures protect critical components allowing you to operate in almost any environment.



### Flexible Options

Explore meteorological sensors, different levels of training, or full service options to get the most out of your profiling system.



[YSI.com/Systems](https://www.ysi.com/Systems)

YSI Pontoon Vertical Profiling System ▶▶

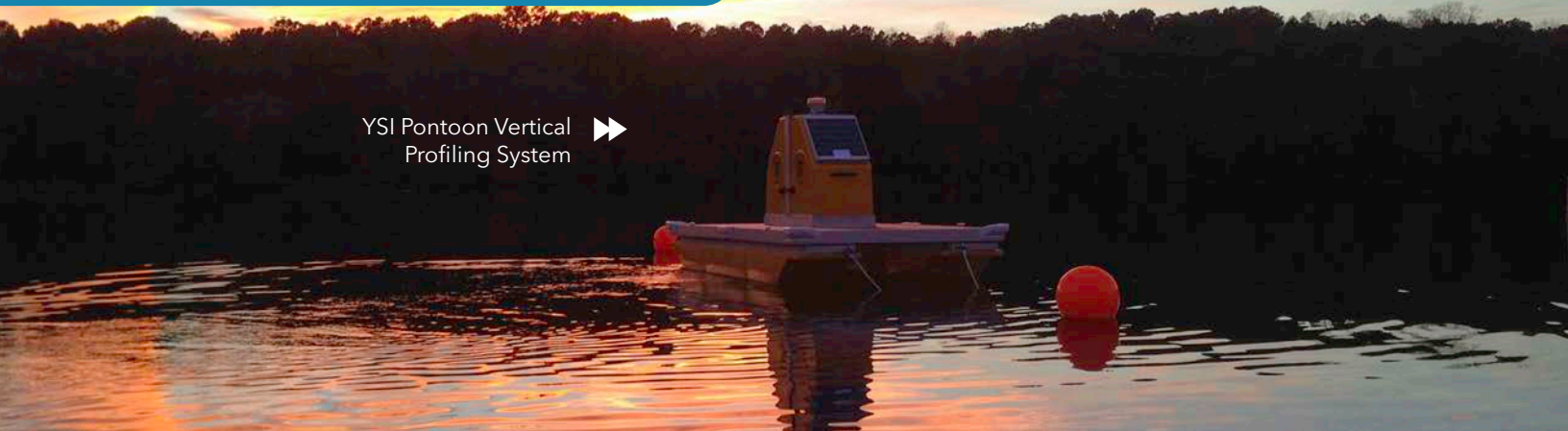






# Profiler Specifications

YSI Pontoon Vertical Profiling System ▶▶



## Profiler Specifications

Setpoint Accuracy	±0.1 m
Minimum Profile Depth:	1 m
Maximum Profile Depth:	100 m
Profile Direction:	Up or down, parks at any depth
Reference Point:	Top and bottom reference points for software-controlled positioning
Warranty:	1 year (refer to sensors for individual warranty)

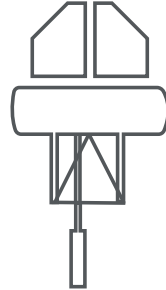
**For more than 20 years** we've been demonstrating how defensible data can change your world. From autonomous HydroMet monitoring systems to hardware installation, design, and maintenance - we have solutions to fit every scale and budget.

YSI Fixed ▶▶  
Vertical Profiler



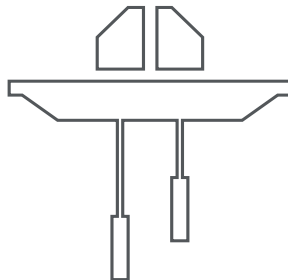
## Buoy Vertical Profiler

- Use in coastal, high seastate environments
- Based on YSI's EMM2.0 buoy
- Deploy from vessel with a crane in at least 4 m of water
- Optional depth sounder
- Submersible enclosure



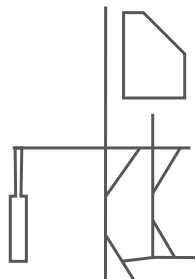
## Pontoon Vertical Profiler

- Used in lakes, bays, harbors
- Can be deployed from a boat ramp in as little as 1.2 m of water
- Can be serviced on the water from a small boat
- Optional depth sounder



## Fixed Vertical Profiler

- Ideal for drinking water reservoirs
- Attach to a bridge, building, or railing
- NEMA4X enclosure





# Sensor Options

## What sensors do YOU want?

YSI's system integration experts can help you to expand your vertical profiling station with other vendors' sensors. Here are some of the most compatible examples.



Li-Cor

 **Underwater Quantum Sensor**



R.M. Young

 **Marine Wind Monitor**



Airmar

 **WeatherStation® Instrument**



Campbell Scientific

 **Barometer**



Li-Cor

 **Spherical Underwater Quantum Sensor**



Aanderaa

 **Doppler Current Profiler**



Campbell Scientific

 **Temperature & Relative Humidity Probe**



Gill Instruments

 **Compact Weather Station**





## Expert Service

### Our experts can provide:



#### Installation

Harsh environments, remote locations, and sites accessible only by boats, airboats, helicopters, or swamp buggies won't stop our team. YSI technicians have construction and installation experience in the field including hardware installation, civil engineering work, and complete system implementation.



#### Maintenance

Maybe you need to keep the data moving, but don't have the people to do routine maintenance of your sites. No problem—we have instrument experts that can take care of calibration, site upkeep, communication verifications, system upgrades, and data quality control. Contact us to discuss the scope of your needs!



#### Commissioning

We can verify that your system is working, including helping you with data delivery to base stations or your SCADA system. Let our experts help your experts.



[YSI.com/Services](https://www.ysi.com/Services)



# 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 settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. 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 [www.xylem.com](http://www.xylem.com)**



YSI, a Xylem brand  
7100 Business Park Drive, Suite B  
Houston, TX 77041

- +1.727.565.2201
- [info@ysi.com](mailto:info@ysi.com)
- [ysi.com](http://ysi.com)

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**[YSI.com/Systems](http://YSI.com/Systems)**





**exo**<sup>TM</sup> Sondes

BEST-IN-CLASS PLATFORM FOR THE HIGHEST-QUALITY DATA





It's your world. **Protect it.**

YSI's **EXO Sonde Platform** is the pinnacle of multiparameter water quality monitoring instrumentation. EXO offers endless customization with a range of sonde models, interchangeable smart sensors, industry-leading anti-fouling, and multiple integration and communication options.

## Selection Guide

	EXO1	EXO1 <sup>s</sup>	EXO1 <sup>s</sup> with depth	EXO2	EXO2 <sup>s</sup>	EXO3	EXO3 <sup>s</sup>
<b>Sensor Ports</b>	4	4	4	7 (6 Sensors + 1 Central Wiper)	7 (6 Sensors + 1 Central Wiper)	5 (4 Sensors + 1 Central Wiper)	5 (4 Sensors + 1 Central Wiper)
<b>Battery Power</b>	2 D-cell batteries	External power required	External power required	4 D-cell batteries	External power required	2 D-cell batteries	External power required
<b>Battery Life</b>	90 days*	–	–	90 days*	–	60 days*	–
<b>External Power</b>	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V
<b>Central Wiper</b>	–	–	–	✓	✓	✓	✓
<b>Auxiliary Port</b>	–	–	–	✓	✓	–	–
<b>Diameter</b>	4.70 cm (1.87 in)	4.75 cm (1.87 in)	4.75 cm (1.87 in)	7.62 cm (3.00 in)	7.62 cm (3.00 in)	7.62 cm (3.00 in)	7.62 cm (3.00 in)
<b>Length with guard</b>	64.53 cm (25.40 in)	44.77 cm (17.63 in)	46.41 cm (18.27 in)	70.52 cm (27.76 in)	42.87 cm (16.88 in)	58.61 cm (23.07 in)	42.87 cm (16.88 in)
<b>Weight without sensor payload</b>	1.42 kg (3.13 lbs)	0.48 kg (1.06 lbs)	0.56 kg (1.24 lbs)	3.60 kg (7.94 lbs)	1.06 kg (2.34 lbs)	2.00 kg (4.41 lbs)	1.06 kg (2.34 lbs)

\*Based on a full sensor payload and a 15-minute logging interval; actual battery life will depend on the number of sensors and measurement frequency.

## EXO Sonde Specifications\*

<b>Memory</b>	>1,000,000 logged readings, 512 MB total memory
<b>Software</b>	Kor Software for Windows; Kor Mobile for Android
<b>Communications</b>	
Computer Interface	YSIP via USB Signal Output Adapter (SOA) and Bluetooth
Output Options	All: RS-232 & SDI-12 via DCP-SOA Modbus & RS-485 via Modbus-SOA EXO3 & EXO3 <sup>s</sup> : SDI-12 Native Output
<b>Temperature</b>	
Operating	-5 to 50 °C (23-122 °F)
Storage	-20 to 80 °C (-4 to 176 °F)
<b>Depth Rating</b>	0 to 250 m (0 to 820 ft)
<b>Sampling Rate</b>	Up to 4 Hz (0.25 seconds)
<b>Sensor Options</b>	Conductivity/Temperature, Depth, Dissolved Oxygen, fDOM, ISE Ammonium, ISE Chloride, ISE Nitrate, pH, pH/ORP, Rhodamine, Total Algae (PC or PE), Turbidity, UV Nitrate
<b>Warranty</b>	3 years

\*Specifications indicate typical performance and are subject to change.



Low power consumption, unmatched sensor payload, and an industry-leading warranty make EXO the ultimate choice for long-term water quality monitoring.



# Monitoring Made Mobile

Stay connected with EXO GO and the EXO Handheld.



## EXO GO

Use Bluetooth to connect your EXO to any Android or Windows device.

## EXO Handheld

A rugged, dedicated interface for EXO Sondes.

GPS	Accuracy: 2.5 m CEP (dependent on site conditions)	Accuracy: 2.5 m CEP (dependent on site conditions)
Barometer	Range: 375 to 825 mmHg Accuracy: $\pm 1.5$ mmHg Resolution: 0.1 mmHg	Range: 375 to 825 mmHg Accuracy: $\pm 1.5$ mmHg Resolution: 0.1 mmHg
Battery	Operating Time: >15 hours Charging Time: 9 hours	Operating Time: >15 hours Charging Time: 9 hours
USB Connectivity	✓	✓
Bluetooth Connectivity	✓	–
IP-67 Rating	✓	✓
Display	–	✓
Onboard Memory	–	✓
Operating Temperature	-5 to 50 °C (23-122 °F)	-5 to 50 °C (23-122 °F)
Storage Temperature	0 to 45 °C (32-113 °F)	0 to 45 °C (32-113 °F)
Dimensions	17.4 x 5.2 x 3.5 cm (6.9 x 2.0 x 1.4 in)	21.6 x 8.3 x 5.6 cm (8.5 x 3.3 x 2.2 in)
Weight	240 g (0.53 lbs)	567 g (1.25 lbs)
Warranty	1 year	3 year handheld 1 year battery



## Where Will You Go with EXO?

Protecting the world means monitoring in remote locations and collecting high-quality data even when you can't be there. **EXO Sondes** allow for 24/7/365 monitoring for the most comprehensive data.



↻ Continuous Monitoring

↻ Discrete Sampling

↻ Systems Integration

## EXO Sensor Specifications

Sensor	Range	Resolution <sup>1</sup>	Accuracy <sup>2</sup>
<b>Conductivity (Non-Wiped)</b>	0 to 200 mS/cm	0.001 to 0.01 mS/cm	±0.5% of reading or 0.001 mS/cm, whichever is greater (0 to 100 mS/cm) ±1.0% of reading (100 to 200 mS/cm)
<b>Temperature</b>	-5 to 50 °C	0.001 °C	-5 to 35 °C: ±0.01 °C (-5 to 35 °C) ±0.05 °C (35 to 50 °C)
<b>Conductivity (Wiped)</b>	0 to 100 mS/cm	0.001 to 0.01 mS/cm	±1.0% of reading or 2 µS/cm, whichever is greater
<b>Temperature</b>	-5 to 50 °C (23 to 158°F)	0.001 °C	±0.2 °C
<b>Depth or Vented Level</b>	0 to 10, 100 or 250 m	0.001 m	±0.04% Full Scale
	0 to 10 m	0.001 m	±0.03% Full Scale
<b>Dissolved Oxygen</b>	0 to 500% air saturation	0.1% air saturation	±1% of reading or 1% saturation, whichever is greater (0 to 200%) ±5% of reading (200 to 500%)
	0 to 50 mg/L	0.01 mg/L	±0.1 mg/L or 1% of reading, whichever is greater (0 to 20 mg/L) ±5% of reading (20 to 50 mg/L)
<b>fDOM</b>	0 to 300 ppb QSU	0.01 ppb QSU	Linearity: $r^2 \geq 0.999$ for 0 to 300 for serial dilution of 300 ppb Quinine Sulfate Solution Minimum Detection Limit of 0.1 ppb Quinine Sulfate Equivalents
<b>ISE Ammonium</b>	0 to 200 mg/L-N (NH <sub>4</sub> <sup>+</sup> )	0.01 mg/L	±10% of reading or ±2 mg/L-N, whichever is greater
<b>ISE Chloride</b>	0 to 1000 mg/L-Cl (Cl <sup>-</sup> )	0.01 mg/L	±15% of reading or ±5 mg/L-Cl, whichever is greater
<b>ISE Nitrate</b>	0 to 200 mg/L-N (NO <sub>3</sub> <sup>-</sup> )	0.01 mg/L	±10% of reading or ±2 mg/L-N, whichever is greater
<b>pH</b>	0 to 14 pH units	0.01 pH units	±0.1 within ±10 °C of calibration temperature ±0.2 for all other temperatures
<b>ORP</b>	-999 to 999 mV	0.1 mV	±20 mV
<b>Rhodamine</b>	0 to 100 RFU	0.01 RFU	±5% or 0.1 µg/L whichever is greater Linearity: $r^2 > 0.999$
	0 to 1,000 µg/L	0.01 µg/L	
<b>TAL-Chlorophyll</b>	0 to 100 RFU or 0 to 400 µg/L chl	0.01 RFU or 0.01 µg/L of pigment	Linearity: $r^2 \geq 0.999$ for Rhodamine WT across full range
<b>TAL-Phycocyanin</b>	0 to 100 RFU or 0 to 400 µg/L PC		
<b>TAL-Phycoerythrin</b>	0 to 100 RFU or 0 to 400 µg/L PE		
<b>Turbidity</b>	0 to 4000 FNU	0.1 FNU	0 to 999 FNU: 0.3 FNU or ±2% of reading, whichever is greater 1000 to 4000 FNU: ±5% of reading
<b>UV Nitrate (NitraLED)</b>	0 to 10 mg/L-N (NO <sub>3</sub> <sup>-</sup> )	0.01 mg/L-N	± 0.4 mg/L-N or 5% of reading, whichever is greater (full temp range)

<sup>1</sup> Range dependent.

<sup>2</sup> Specifications indicate typical performance and are subject to change.

➤ **Extend deployments and reduce site visits with superior anti-fouling.**



## Calculated Parameters

The following parameters are calculated from one or more sensors listed above.

- Absolute Pressure
- Ammonia
- DO% Local
- DO% LocalB
- Gauge Pressure
- nLF Conductivity
- Resistivity
- Salinity
- Specific Conductivity
- Total Algae cells/mL
- Total Dissolved Solids
- Total Suspended Solids
- Vertical Position
- Water Density

YSI, a Xylem brand  
1725 Brannum Lane  
Yellow Springs, OH 45387

+1.937.767.7241  
info@ysi.com  
YSI.com



Who's  
Minding  
the Planet?



YSI.com/EXO

### 12.1 Warranty & Service Information

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The **YSI ISS Profiling System** is warranted for one year from date of purchase by the end user against defects in materials and workmanship. **YSI Sondes** carry specific warranties listed in the Sonde Operations Manual. Within the warranty period, **YSI ISS** will repair or replace, at its sole discretion, free of charge, any product that **YSI ISS** determines to be covered by this warranty.

To exercise this warranty, write or call your local **YSI ISS** representative, or contact YSI Integrated Systems & Services' corporate offices. Send the product and proof of purchase, transportation prepaid, to the Authorized Service Center selected by **YSI ISS**. Repair or replacement will be made and the product returned transportation prepaid. Repaired or replaced products are warranted for the balance of the original warranty period, or at least 90 days from date of repair or replacement.

#### LIMITATION OF WARRANTY

This warranty does not apply to any product damage or failure caused by:

1. failure to install, operate, or use the product in accordance with YSI's written instructions;
2. abuse or misuse of the product;
3. failure to maintain the product in accordance with YSI's written instructions or standard industry procedure;
4. any improper repairs to the product;
5. use of defective or improper components or parts in servicing or repairing the product;
6. modification of the product in any way not expressly authorized by YSI.

**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. YSI ISS's LIABILITY UNDER THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, AND THIS SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY DEFECTIVE PRODUCT COVERED BY THIS WARRANTY. IN NO EVENT SHALL YSI ISS BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECTIVE PRODUCT COVERED BY THIS WARRANTY.**



## 8.4

# Instrument Warranty

## Warranty Card

Register your product with the online warranty card:  
[www.YSI.com/warranty](http://www.YSI.com/warranty)

Warranted against defects in workmanship and materials when used for their intended purposes and maintained according to instructions and exclusive of batteries and any damage caused by defective batteries.

**Three years:** handheld

**Two years:** cables; sondes (bulkheads); conductivity, temperature, depth, and optical sensors; electronics base for pH, pH/ORP, ammonium, chloride, and nitrate sensors; and accessories

**One year:** optical DO membranes and replaceable reagent modules for pH and pH/ORP; EXO GO

**Three months:** replaceable reagent modules for ammonium, chloride, and nitrate

Regular maintenance of sondes and sensors, such as replacing damaged o-rings, is described in the Maintenance section of this manual. Users are expected to follow these guidelines to keep their equipment in good and proper working order and to protect the warranty on the product. Damage due to accidents, misuse, tampering, or failure to perform prescribed maintenance is not covered.

This warranty does not include batteries or damage resulting from defective batteries. As documented in the Maintenance section of this manual, batteries should be removed from all sondes and handheld when the product is not in use. Since many battery manufacturers will repair or replace any equipment that has been damaged by their batteries, it is essential that leaky or defective batteries be retained with the damaged product until the manufacturer has evaluated the claim.

Product(s) must be sold by and received from Xylem or an authorized representative or distributor. The warranty period starts when the instrument is received. The warranty period for chemicals and reagents is determined by the expiration date printed on their labels. Within the warranty period, we will repair or replace, at our sole discretion, free of charge, any product that we determine to be covered by this warranty.

To exercise this warranty, write or call your local representative, or contact Technical Support. Send the product and proof of purchase, transportation prepaid, to the Authorized Service Center selected by the manufacturer. Repair or replacement will be made and the product returned transportation prepaid. Repaired or replaced products are warranted for the balance of the original warranty period, or at least 90 days from date of repair or replacement.

## Limitation of Warranty

This Warranty does not apply to any EXO product damage or failure caused by (i) failure to install, operate or use the product in accordance with the written instructions, (ii) abuse or misuse of the product, (iii) failure to maintain the product in accordance with the written instructions or standard industry procedure, (iv) any improper repairs to the product, (v) use by you of defective or improper components or parts in servicing or repairing the product, or (vi) modification of the product in any way not expressly authorized by the manufacturer.

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EXO Authorized Service Centers are located in the United States and around the world. Please refer to the YSI website ([www.YSI.com/Repair](http://www.YSI.com/Repair)) for your nearest Authorized Service Center.