



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 2

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 455433

SO Doc Code: CRFQ

Procurement Type: Central Purchase Order

SO Dept: 0313

Vendor ID: 

SO Doc ID: DEP1900000004

Legal Name: FONDRIEST ENVIRONMENTAL INC

Published Date: 7/26/18

Alias/DBA:

Close Date: 8/9/18

Total Bid: \$97,946.60

Close Time: 13:30

Response Date: 

Status: Closed

Response Time:

Solicitation Description:

[Apply Default Values to Commodity Lines](#)

[View Procurement Folder](#)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Multi parameter water quality sonde	6.00000	EA	\$5,937.760000	\$35,626.56

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description :	Multiparameter Water Quality Sonde YSI EX03 or Equal
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Comments: Includes central wiper cost in unit pricing.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Dissolved Oxygen Sensor	6.00000	EA	\$1,911.000000	\$11,466.00

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description :	Dissolved Oxygen Sensor
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Conductivity/Conductance Sensor	6.00000	EA	\$1,608.750000	\$9,652.50

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description :	Conductivity/Conductance Sensor
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Comments: Includes integrated temperature sensor.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Temperature Sensor	6.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description :	Temperature Sensor
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Comments: Included with conductivity/conductance sensor.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	pH Sensor	6.00000	EA	\$663.000000	\$3,978.00

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description : pH Sensor

Comments: Includes integrated ORP sensor.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	ORP Sensor	6.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description : ORP Sensor

Comments: Included with pH sensor.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	Turbidity Sensor	6.00000	EA	\$1,755.000000	\$10,530.00

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description : Turbidity Sensor

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	Chlorophyll/Blue-green Algae Sensor	6.00000	EA	\$3,393.000000	\$20,358.00

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description : Chlorophyll/Blue-green Algae Sensor

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	Hand-Held Display Unit	2.00000	EA	\$3,167.770000	\$6,335.54

Comm Code	Manufacturer	Specification	Model #
83101503			

Extended Description : Hand-Held Display Unit, YSI EXO or equal.

Comments: Includes 4m field cable in unit pricing.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

↗ Paul Nieberding, General Manager
 (Name, Title)
 ↘ P. Nieberding, General Manager
 (Printed Name and Title)
2091 Exchange Court, Fairborn, OH 45324
 (Address)
937-426-2151 / 937-426-1125
 (Phone Number) / (Fax Number)
paul.nieberding@fondriest.com
 (email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Fondriest Environmental, Inc.
 (Company)

P. Nieberding, General Manager
 (Authorized Signature) (Representative Name, Title)

Paul Nieberding, General Manager
 (Printed Name and Title of Authorized Representative)

8/2/18
 (Date)

937-426-2151 / 937-426-1125
 (Phone Number) (Fax Number)

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: Fondriest Environmental Address: 2091 Exchange Ct
Fairborn, OH 45324

Name of Authorized Agent: Elizabeth Fondriest Address: Same

Contract Number: DEP1900000004 Contract Description: Multi Parameter Water Quality Sonde

Governmental agency awarding contract: Department of Environmental Protection

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: Elizabeth Fondriest Date Signed: 08-02-18

Notary Verification

State of OHIO, County of Greene:

I, Lindsey Ullmer, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 2nd day of August, 18.

Lindsey J Ullmer
Notary Public's Signature



To be completed by State Agency:

Date Received by State Agency: _____
Date submitted to Ethics Commission: _____
Governmental agency submitting Disclosure: _____

LINDSEY J ULLMER
Notary Public, State of Ohio
My Comm. Expires May 6, 2023

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Fondriest Environmental, Inc

Authorized Signature: Elizabeth Fondriest Date: 08-02-18

State of Ohio

County of Greene to-wit:

Taken, subscribed, and sworn to before me this 2 day of August, 2018.

My Commission expires 5-16, 2023.



LINDSEY J ULLMER
Notary Public, State of Ohio
My Comm. Expires May 6, 2023

NOTARY PUBLIC Lindsey J Ullmer



EXO Sondes

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

EXO Sonde Brochure
E102-06 Rev. A



a xylem brand



YSI.com/EXO

When only the best will do.

EXO is the premium water quality monitoring platform in the world.

The unmatched benefits of **EXO** include:



Highest Data Quality
Onboard monitoring systems verify sensor operation



Industry-leading Anti-fouling
Best-in-class anti-fouling wiper technology



Smart QC™
SmartQC checks for errors and ensures proper calibrations



Titanium Components
The toughest grade parts guarantee operation well into the future



Digital Smart Sensors
Auto-recognition of any sensor in any port



EX02^S

EX03

EX01

EX02



CHINA DRINKING WATER MONITORING

AUSTRALIA WATER SUPPLY PROFILING BUOY

CORVETTE MUSEUM SINKHOLE

PACIFIC CORAL BLEACHING

A Smart, Field-Ready Water Monitoring Platform

Best-In-Class Sonde Platform



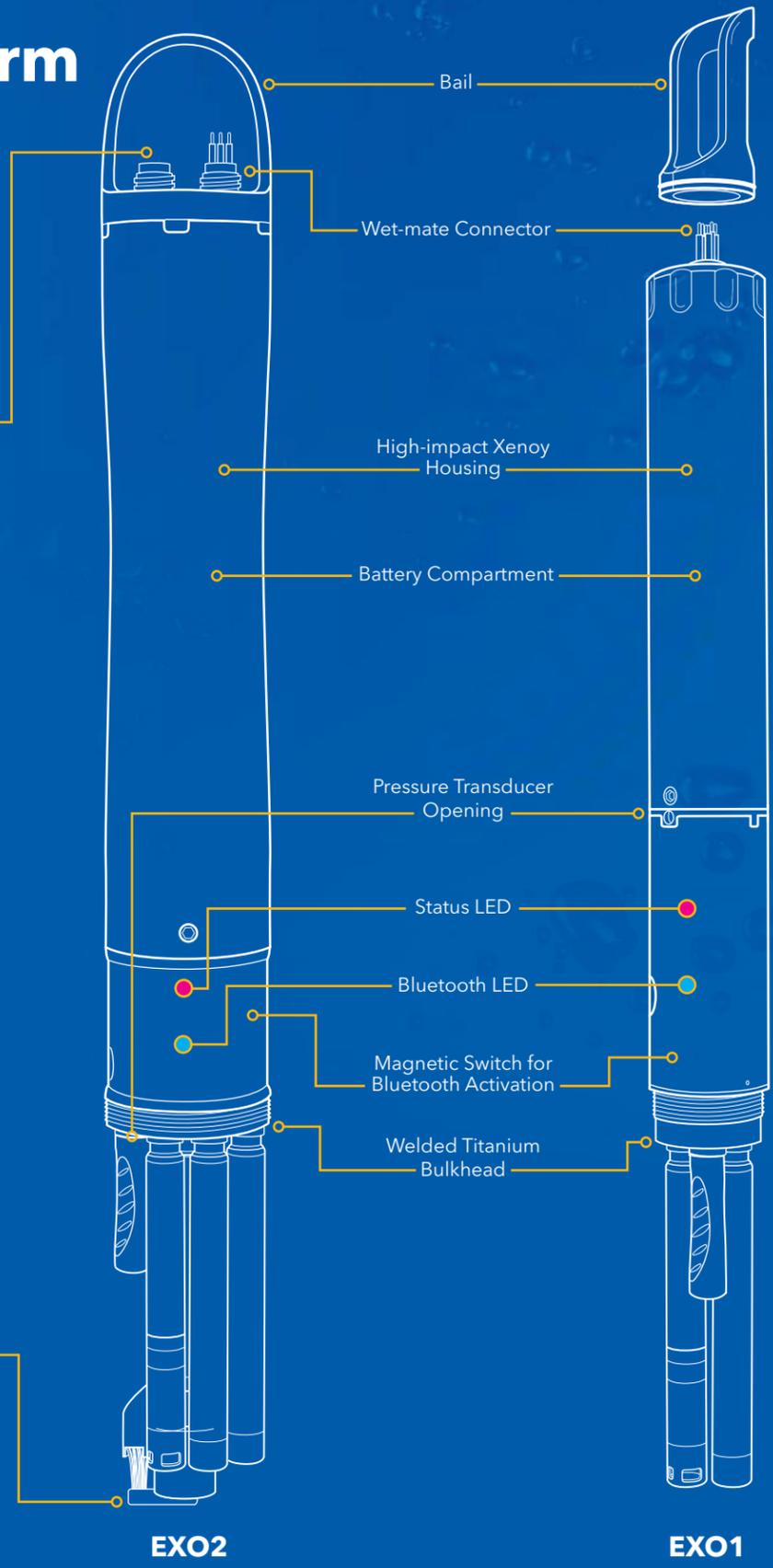
Cable connector, battery valve, and expansion port on EXO2



Smart ports accept any sensor, or central port may be used for anti-fouling wiper



Anti-fouling wiper cleans sensor faces, minimizing maintenance and maximizing length of deployment



EXO2

EXO1



Selection Guide



	EXO1	EXO2	EXO2 ^s	EXO3
Smart Ports	4	7	7	5
Battery Type	2 D-cell	4 D-cell	External Power	2 D-cell
Battery Life	90 days*	90 days*	N/A	60 days*
Dimensions	Length: 64.77 cm Diameter: 4.70 cm	Length: 71.10 cm Diameter: 7.62 cm	Length: 47.00 cm Diameter: 7.62 cm	Length: 58.67 cm Diameter: 7.62 cm
Weight (fully loaded)	1.42 kg	3.60 kg	1.10 kg	2.00 kg
SDI-12	with Adapter	with Adapter	with Adapter	Integral
Vented Level	✓	✓		
Wiper		✓	✓	✓
Auxiliary Port		✓	✓	

*Battery life will depend on the type of sensors and measurement frequency. Specifications indicate typical performance and are subject to change. Please check EXOwater.com for up-to-date information.

Sonde Specifications

Sondes	
Operating Temperature	-5 to 50°C
Storage Temperature	-20 to 80°C (may differ for sensors)
Depth Rating	0 to 250 m
Communications	Computer Interface: Bluetooth wireless technology, RS-485, USB Output Options: USB with signal output adapter (SOA); RS-232 & SDI-12 with DCP-SOA; Modbus & RS-485 with Modbus-SOA
Sample Rate	Up to 4 Hz
Data Memory	512 MB total memory; >1,000,000 logged readings
Warranty	2 years

EXO Sondes are perfect for long-term deployments. Daisy-chain multiple sondes for measurements at various depths.



Monitoring Made Mobile



EXO GO

EXO GO uses Bluetooth to connect any Windows OS device to a submerged EXO Sonde.

Pair with a tablet or laptop and leverage the full power of KorEXO Software for your monitoring applications.

Choose **EXO GO** for the flexibility of monitoring with any Windows OS device and access to the full features of KorEXO Software. EXO GO cuts out the middleman and delivers data directly to your PC!

EXO GO

KorEXO Software
Bring the full power of KorEXO to your site with any Windows OS portable device

Bluetooth Communication
Keep your sonde in the water while you view data in real time, download files, or adjust deployment settings on the GO

Common Feature

GPS Tagging
Georeference data sets using GPS



	EXO GO	EXO Handheld
USB Connectivity	✓	✓
Bluetooth Connectivity	✓	
IP-67 Rating	✓	
Display		✓
Onboard Memory		✓
Operating Temperature	-5 to 50°C	0 to 50°C
Storage Temperature	0 to 45°C	0 to 45°C
Dimensions	17.4 x 5.2 x 3.5 cm	8.3 x 21.6 x 5.6 cm
Weight	240 g	567 g
Warranty	1 year	3 year meter, 1 year battery

	Common Features
GPS	Accuracy: 2.5 m CEP (dependent on site conditions)
Barometer	Range: 375 to 825 mmHg Accuracy: +/-1.5 mmHg Resolution 0.1 mmHg
Battery	Operating Time: >15 hours Charging Time: 9 hours



EXO Handheld

The EXO Handheld offers a dedicated, streamlined interface to EXO Sondes.

Convenient monitoring is achieved with a backlit color display, ergonomic design, and simple operation.

Choose the **EXO Handheld** for an easy-to-use, purpose-built interface with a tactile keypad and full color display. Keep it simple and collect data in the most challenging environments with the EXO Handheld!

EXO Handheld

Simplified Interface
Lower the learning curve of collecting high-quality data with a simplified user interface and integrated help screens

Transfer Data
Quickly transfer collected data sets and calibration records to a USB flash drive with the push of a button

Common Feature

Lithium-Ion Battery
Collect more samples with the long-lasting, rechargeable battery

Smart Sensor Suite

A dynamic range of sensors for multiparameter applications



CENTRAL WIPER



DO

TAL-PC

C/T (WIPED)

pH/ORP

fDOM

TURBIDITY

DEPTH



EXO sondes feature universal smart ports for sensor installation

Sensors Not Shown

CONDUCTIVITY / TEMPERATURE (NON-WIPED)

TOTAL ALGAE-PE

AMMONIUM ISE

CHLORIDE ISE

NITRATE ISE

pH

Sensor Specifications

Sensor	Range	Resolution ¹	Accuracy ²
Conductivity (Non-Wiped)	0 to 200 mS/cm	0.0001 to 0.01 mS/cm	±0.5% of reading or 0.001 mS/cm, w.i.g. (0-100 mS/cm) ±1% of reading (100-200 mS/cm)
	-5 to 50°C	0.001°C	±0.01°C (-5 to 35°C) ±0.05°C (35 to 50°C)
Conductivity (Wiped)	0 to 100 mS/cm	0.0001 to 0.01 mS/cm	±1% of reading or 2 µS/cm, w.i.g.
	-5 to 50°C	0.001°C	±0.2°C
Depth or Vented Level	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
Dissolved Oxygen	0 to 500% air sat.	0.1% air sat.	±1% of reading or 1% sat., w.i.g., (0 to 200%) ±5% of reading (200 to 500%)
	0 to 50 mg/L	0.01 mg/L	±1% of reading or 0.1 mg/L, w.i.g., (0 to 20 mg/L) ±5% of reading (20 to 50 mg/L)
fDOM	0 to 300 ppb QSE	0.01 ppb QSE	Linearity: $r^2 \geq 0.999$ for 0 to 300 ppb QSE, MDL of 0.016 ppb QSE
pH	0-14 pH units	0.01 pH unit	±0.1 within ±10°C of cal temp ±0.2 for all other temps
ORP	-999 to 999 mV	0.1 mV	±20 mV
TAL-Chlorophyll	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
TAL-Phycocyanin or TAL-Phycoerythrin	0 to 100 RFU or 0 to 100 µg/L PC		
	0 to 100 RFU or 0 to 280 µg/L PE		
Turbidity	0 to 4000 FNU	0.01 FNU to 0.1 FNU	0.3 FNU or ±3% of reading, (0 to 999 FNU) ±5% of reading (1000 to 4000 FNU)

¹Range dependent.

²Specifications indicate typical performance and are subject to change. Please check EXOwater.com for up-to-date information.

EXO Smart Sensor Anatomy



Calculated Parameters

The following parameters are calculated from one or more sensors listed above. More information about the methods and calculations may be found in the EXO User Manual.

- 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

KorEXO Software

KorEXO is an accessible, feature-rich software platform for managing EXO instrumentation and water quality data. The software allows you to calibrate sensors, setup long-term deployments, and ensure equipment is operating at peak performance. Designed to run on Windows OS computers and tablets, the interface is optimized for touchscreens and streamlined for operation in the field, lab, or office.

Graph view makes it easy to visualize live or recorded data and spot trends.

Complete calibrations faster than ever! Redo or add calibration points on the fly with tips to ensure accuracy.

Sonde status is always on display so users know whether or not the sonde is deployed. New data are automatically downloaded when the sonde is connected.

The 'Provide Feedback' button allows users to share their thoughts and make suggestions to continuously enhance the experience.

KorEXO Software assigns a QC Score after every calibration. Notifications are displayed for calibration errors or if sensors are not performing properly.

Support and Protection for Your Peace of Mind

Protect your investment with the EXO Factory Service Plan

With an **EXO Factory Service Plan**, you can minimize down-time and unexpected maintenance costs by keeping your equipment in top working order.

What does the Service Plan include?

Plans cover standard replacement parts, firmware updates, seal restoration, cleaning, comprehensive evaluation, testing, and calibration of all sensors.

What equipment is covered?

Each plan covers a single EXO sonde, field cable, handheld, and sensors purchased with the sonde.

How long does coverage last?

Plans are available for coverage up to 3 years from the time the EXO Sonde is purchased.

Industry-Leading Technical Support

Our expert **Technical Support Team** is available to provide assistance and answer any questions that may come up in the field or lab.

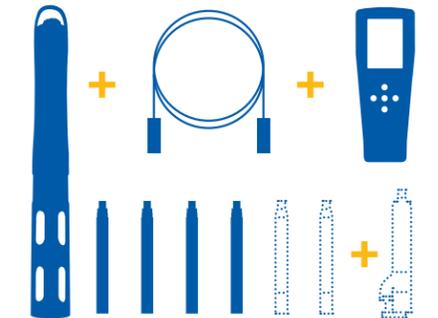
 **Call +1 (937) 767-2762** to speak with our knowledgeable staff

 **Email info@ysi.com** for questions regarding your EXO equipment

 **Live Chat at [YSI.com](https://www.ysi.com)** for immediate response from technical experts



Factory Service Center located in Yellow Springs, Ohio



Technicians are available for in-house or on-site training events



Xylem |'zilem|

- 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.

xylem

Let's Solve Water

"I'm very proud of the great work our customers do using our best-in-class sonde platform."



Dr. Stephanie A. Smith
EXO Product Manager



YSI Incorporated
1725 Brannum Lane
Yellow Springs, OH 45387

1.800.897.4151
info@ysi.com
YSI.com/EXO

Who's Minding
the Planet?[®]



Specifications are subject to change. Please visit YSI.com to verify all specs.
EXO™ is a trademark of Xylem Inc. or one of its subsidiaries. Bluetooth® is a trademark of Bluetooth SIG Inc.
Xenoy is a trademark of SABIC Plastics. © 2018 YSI, a Xylem brand E102-06 0318

YSI.com/EXO