



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.

Selectio guide							
	EXO1	EXO1 ^s	EXO1 ^s with depth	EXO2	EXO2 ^s	EXO3	EXO3 ^s
Sensor Ports	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)
Battery Power	2 D-cell batteries	External power required	External power required	4 D-cell batteries	External power required	2 D-cell batteries	External power required
Battery Life	90 days*	-	-	90 days*	-	60 days*	-
External Power	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V	9 - 16 V
Central Wiper	-	-	-	✓	✓	✓	✓
Auxiliary Port	-	-	-	~	~	-	-
Diameter	4.70 cm (1.85 in)	4.70 cm (1.85 in)	4.70 cm (1.85 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)
Length with guard	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)
Weight without sensor payload	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*					
Memory	>1,000,000 logged readings, 512 MB total memory				
Software	Kor Software for Windows; Kor Mobile for Android				
Communications					
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 ^s : SDI-12 Native Output				
Temperature					
Operating	-5 to 50 °C (23 to 122 °F)				
Storage	-20 to 80 °C (-4 to 176 °F)				
Depth Rating	0 to 250 m (0 to 820 ft)				
Sampling Rate	Up to 4 Hz (0.25 seconds)				
Sensor Options	Conductivity/Temperature, Depth, Dissolved Oxygen, fDOM, ISE Ammonium, ISE Chloride, ISE Nitrate, pH, pH/ORP, Rhodamine, Total Algae (PC or PE), Turbidity, UV Nitrate				
Warranty	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: ± 1.5 mmHg Resolution: 0.1 mmHg	Range: 375 to 825 mmHg Accuracy: ± 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	$17.4 \times 5.2 \times 3.5 \text{ cm}$ (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.







EXO Sensor Specifications Resolution¹ Sensor Range Accuracy² 0 to 100,000: $\pm 0.5\%$ of reading or 1 μ S/cm, whichever is greater Conductivity $0 \text{ to } 200,000 \,\mu\text{S/cm}$ 0.1 to 10 µS/cm (Non-Wiped) 100,000 to 200,000: ±1.0% of reading -5 to 35: ±0.01 °C 0.001 °C **Temperature** -5 to 50 °C 35 to 50: ±0.05 °C Conductivity 0 to 100,000 µS/cm 0.1 to $10 \,\mu\text{S/cm}$ $\pm 1.0\%$ of reading or 2 μ S/cm, whichever is greater (Wiped) -5 to 50 °C 0.001 °C ±0.2 °C **Temperature** 0 to 10, 100 or 250 m 0.001 m ±0.04% Full Scale Depth or **Vented Level** 0 to 10 m 0.001 m ±0.03% Full Scale 0 to 200: ±1% of reading or 1% saturation, whichever is greater 0 to 500% air saturation 0.1% air saturation 200 to 500: ±5% of reading Dissolved Oxygen 0 to 20: ±0.1 mg/L or 1% of reading, whichever is greater 0 to 50 mg/L 0.01 mg/L 20 to 50: ±5% of reading Linearity: $r^2 \ge 0.999$ for 0 to 300 for serial dilution of 300 ppb Quinine **fDOM** 0 to 300 ppb QSU 0.01 ppb QSU Sulfate Solution Minimum Detection Limit: 0.1 ppb Quinine Sulfate Equivalents **ISE Ammonium** 0 to 200 mg/L-N (NH_4^+) 0.01 mg/L ±10% of reading or ±2 mg/L-N, whichever is greater **ISE Chloride** 0 to 1000 mg/L-Cl (Cl-) ±15% of reading or ±5 mg/L-Cl, whichever is greater 0.01 mg/L **ISE Nitrate** 0 to 200 mg/L-N (NO_3^-) 0.01 mg/L ±10% of reading or ±2 mg/L-N, whichever is greater ±0.1 within ±10 °C of calibration temperature рΗ 0 to 14 pH units 0.01 pH units ±0.2 for entire temperature range ORP -999 to 999 mV 0.1 mV ±20 mV in Redox standard solution 0 to 100 RFU 0.01 RFU Linearity: r² > 0.999 or Rhodamine WT across full range **Rhodamine** ±5% or 0.1 μg/L, whichever is greater $0 \text{ to } 1,000 \,\mu\text{g/L}$ $0.01 \, \mu g/L$ **TAL-Chlorophyll** 0 to 100 RFU or 0 to 400 µg/L chl 0.01 RFU or 0 to 100 RFU or **TAL-Phycocyanin** Linearity: $r^2 \ge 0.999$ for Rhodamine WT across full range 0 to 100 µg/L PC 0.01 µg/L of pigment 0 to 100 RFU or **TAL-Phycoerythrin** 0 to 280 µg/L PE 0 to 999: 0.01 FNU 0 to 999: 0.3 FNU or ±2% of reading, whichever is greater **Turbidity** 0 to 4000 FNU, NTU 1000 to 4000: 0.1 FNU 1000 to 4000: ±5% of reading 0 to 10: ± 0.1 mg/L-N or 5% of reading, whichever is greater (within 2 °C) **UV Nitrate**

(NitraLED)

0 to 30 mg/L-N (NO_{3}^{-})

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
- Local DO %CB
- Resistivity
- Total Algae cells/mL
 Total Discussion | College | College
- Vertical Position

- Ammonia
- Local DO %RTB
- Salinity

0.01 mg/L-N

- Total Dissolved Solids
- Water Density

- Gauge Pressure
- nLF Conductivity
- Specific Conductivity

Total Suspended Solids

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







10 to 30: \pm 7% of reading



±0.4 mg/L-N or 5% of reading, whichever is greater (full range)







¹ Range dependent.

² Specifications indicate typical performance and are subject to change.