



## YSI 6600 V2 Sonde

*With 4 optical ports and new sensor options*

Make the most of your monitoring efforts with the 6600 V2.

The 6600 V2 Sonde offers the most comprehensive water quality monitoring package available with simultaneous measurement of: conductivity (salinity), temperature, depth, pH/ORP, dissolved oxygen (using the ROX™ optical DO sensor), turbidity, chlorophyll, and blue-green algae. Additional calculated parameters include total dissolved solids, level, resistivity, and specific conductance.

Take advantage of YSI's new optical sensor design and anti-fouling wiper control for improved reliability during extended deployments.

- Self-cleaning optical sensors with improved wiping
- Field-replaceable sensors
- Built-in battery compartment for long-term *in situ* monitoring



The YSI 6600 V2 Sonde

### Take Advantage of YSI's New Optical Sensors

In addition to turbidity, chlorophyll, and rhodamine, YSI now offers these optical sensors:

#### ROX Reliable Optical Dissolved Oxygen

The ROX sensor uses lifetime luminescence detection technology to offer the most reliable oxygen sensor with the lowest possible maintenance effort. Experience significantly less membrane maintenance while obtaining excellent accuracy, sensitivity, and range.



#### Blue-Green Algae (BGA)

YSI's fluorescence-based blue-green algae sensors will allow you to monitor blue-green algae populations where their presence is a concern. Whether providing an early warning to an algal bloom, tracking taste and odor-causing species in drinking water supplies, or conducting ecosystem research; YSI BGA sensors will provide sensitive and reliable *in situ* data.

### 6600 Upgrades Available

YSI is committed to offering our customers reliable and cost-effective water monitoring solutions. To this end, we are offering V2 Upgrades for existing 6600s. Upgrades will be available from YSI Authorized Service Centers and will include the new 6600 V2 bulkhead, an Optical Dissolved Oxygen Sensor, and firmware/software upgrades. In addition, the sonde will be fully tested and calibrated by an experienced YSI service technician.

### Sensor performance verified\*

The 6600 V2 sonde uses sensor technology that was verified through the US EPA's Environmental Technology Verification Program (ETV). For information on which sensors were performance-verified, turn this sheet over and look for the ETV logo.



Pure  
Data for a  
Healthy  
Planet.®

Upgraded, compact sondes  
for field sampling and data  
collection platforms



To order, or for more information, contact YSI Environmental.

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ISO 9001  
ISO 14001

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Printed in USA 0806 E52



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### YSI 6600 VZ Sensor Specifications

	Range	Resolution	Accuracy
ROX™ Optical Dissolved Oxygen* % Saturation	0 to 500%	0.1%	0 to 200%: ±1% of reading or 1% air saturation, whichever is greater; 200 to 500%: ±15% of reading
ROX™ Optical Dissolved Oxygen* mg/L	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ± 0.1 mg/L or 1% of reading, whichever is greater; 20 to 50 mg/L: ±15% of reading
Conductivity** 6560 Sensor	ET ✓ 0 to 100 mS/cm	0.001 to 0.1 mS/cm (range dependent)	±0.5% of reading + 0.001 mS/cm
Salinity	0 to 70 ppt	0.01 ppt	±1% of reading or 0.1 ppt, whichever is greater
Temperature 6560 Sensor	ET ✓ -5 to +60°C	0.01°C	±0.15°C
pH 6561 Sensor	ET ✓ 0 to 14 units	0.01 unit	±0.2 unit
ORP	-999 to +999 mV	0.1 mV	±20 mV
Depth	Deep Medium Shallow Vented Level 0 to 656 ft, 200 m 0 to 200 ft, 61 m 0 to 30 ft, 9.1 m 0 to 30 ft, 9.1 m	0.001 ft, 0.001 m 0.001 ft, 0.001 m 0.001 ft, 0.001 m 0.001 ft, 0.001 m	±1 ft, ±0.3 m ±0.4 ft, ±0.12 m ±0.06 ft, ±0.02 m 0 to 10 ft (3 m): ±0.01 ft, 0.003 m 10 to 30 ft (3 to 9.1 m): ±0.03 ft, 0.018 m
Turbidity* 6136 Sensor	ET ✓ 0 to 1,000 NTU	0.1 NTU	±2% of reading or 0.3 NTU, whichever is greater*
Rhodamine*	0-200 µg/L	0.1 µg/L	±5% reading or 1 µg/L, whichever is greater

\* Maximum depth rating for all optical probes is 200 feet, 60.96 m.  
\*\* Report outputs of specific conductance (conductivity corrected to 25°C), resistivity, and total dissolved solids are also provided. These values are automatically calculated from conductivity according to algorithms found in *Standard Methods for the Examination of Water and Wastewater* (ed 1989).  
\*\*\* Freshwater only, Maximum depth rating of 50 feet, 15.2 m.

\*In YSI AMCO-AEPA Polymer Standards.

	Range	Detection Limit	Resolution	Linearity
BGA - Phycocyanin*	~0 to 200,000 cells/mL† 0 to 100 RFU	~160 cells/mL§	1 cell/mL 0.1 RFU	R <sup>2</sup> > 0.9999*
BGA - Phycoerythrin*	~0 to 200,000 cells/mL† 0 to 100 RFU	~450 cells/mL§§	1 cell/mL 0.1 RFU	R <sup>2</sup> > 0.9999**
Chlorophyll* 6025 Sensor	ET ✓ ~0 to 400 µg/L 0 to 100 RFU	~0.1 µg/L§§§	0.1 µg/L Chl 0.1% RFU	R <sup>2</sup> > 0.9999***

\* Maximum depth rating for all optical probes is 200 feet, 61 m.  
BGA = Blue-Green Algae  
RFU = Relative Fluorescence Units  
~ = Approximately

† Explanation of Ranges can be found in the 'Principles of Operation' section of the 6-Series Manual, Rev D.

§ Estimated from cultures of *Microcystis aeruginosa*.  
§§ Estimated from cultures *Synechococcus sp.*  
§§§ Determined from cultures of *Isochrysis sp.* and chlorophyll *a* concentration determined via extractions.

\*Relative to serial dilution of Rhodamine WT (0-400 µg/L).  
\*\*Relative to serial dilution of Rhodamine WT (0-8 µg/L).  
\*\*\*Relative to serial dilution of Rhodamine WT (0-500 µg/L).

### YSI 6600 VZ Sonde Specifications

Medium	Fresh, sea or polluted water	Software	EcoWatch®
Temperature	Operating Storage -5 to +50°C -10 to +60°C	Dimensions	Diameter 3.5 in, 8.9 cm Length, no depth 19.6 in, 49.8 cm Length, with depth 21.6 in, 54.9 cm
Material	PVC, Stainless Steel	Weight	7 lbs, 3.18 kg (batteries installed, with depth option)
Communications	RS-232, SDI-12	Power	8 C-size alkaline batteries, 12 V DC External