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600OMS VZ Optical Monitoring System

Dissolved Oxygen, Turbidity, Chlorophyll, Blue-Green Algae, or Rhodamine in a Low-Cost Package

Measure any one of the parameters above in combination with temperature, conductivity, and depth or vented level in fresh, sea, or polluted water.

The 600OMS VZ can take advantage of the newest optical sensors from YSI: ROX Reliable Oxygen (YSI 6150) and two new Blue-Green Algae sensors (YSI 6131 Phycocyanin and YSI 6132 Phycoerythrin). Utilize the field-proven YSI 6136 turbidity sensor, the YSI 6025 chlorophyll sensor, as well as the revolutionary YSI 6130 rhodamine WT sensor. The OMS VZ also incorporates innovations in sensor configuration such as a conductivity and temperature module that fits into the sonde body.



The YSI 600OMS VZ and optical sensors

- Wiped optics for maximum anti-fouling protection
- Ideal for long-term deployments
- Low power requirements
- Field-replaceable optical sensors
- 150,000 reading memory
- Integrate with DCPs
- Compatible with EcoWatch® for Windows® data analysis software
- Compatible with YSI 650MDS display and datalogger



Pure
Data for a
Healthy
Planet.®

Low-cost, single
parameter optical
monitoring system

Sensor performance verified*

The 600OMS VZ sonde use 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.





To order, or for more info,
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ISO 9001
ISO 14001

Yellow Springs, Ohio Facility

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*Sensors with listed with the ETV logo were submitted to the ETV program on the YSI 6000EDS. Information on the performance characteristics of YSI water quality sensors can be found at www.epa.gov/etv or call YSI at 800.897.4151 for the ETV verification report. Use of the ETV name or logo does not imply approval or certification of this product nor does it make any explicit or implied warranties or guarantees as to product performance.

YSI incorporated
Who's Minding
the Planet?

YSI 6000MS 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**	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	-5 to +50°C	0.01°C	±0.15°C
Depth	Medium Shallow Vented Level	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
Turbidity* 6136 Sensor*	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, 61 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).

**In YSI AMCO-AEPA Polymer Standards.

	Range	Detection Limit	Resolution	Linearity
BGA - Phycocyanin*	~0 to 280,000 cells/mL† 0 to 100 RFU	~220 cells/mL§	1 cell/mL 0.1 RFU	R ² > 0.9999**
BGA - Phycoerythrin*	~0 to 200,000 cells/mL† 0 to 100 RFU	~450 cells/mL§§	1 cell/mL 0.1 RFU	R ² > 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 ² > 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 6000MS V2 Sonde Specifications

Medium	Fresh, sea or polluted water
Dimensions	Diameter Length Weight Weight with Batteries
	1.65 in, 4.2 cm 21.3 in, 54.1 cm 1.3 lbs, 0.6 kg 1.4 lbs, 0.7 kg
Power	External Internal Battery Option
	12 V DC 4 AA Alkaline cells, 25 to 30 days at 15 minute sampling interval at 25°C

Ordering Information

600-01	6000MS V2 sonde, conductivity, temperature, optical port
600-02	6000MS V2 sonde, conductivity, temperature, optical port, internal batteries
600-03	6000MS V2 sonde, conductivity, temperature, optical port, shallow depth
600-04	6000MS V2 sonde, conductivity, temperature, optical port, shallow depth, internal batteries
600-05	6000MS V2 sonde, conductivity, temperature, optical port, medium depth
600-06	6000MS V2 sonde, conductivity, temperature, optical port, medium depth, internal batteries
600-07	6000MS V2 sonde, conductivity, temperature, optical port, shallow vented depth
600-08	6000MS V2 sonde, conductivity, temperature, optical port, shallow vented depth, internal batteries