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YSI 600OMS V2 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 V2 can take advantage of 6-Series optical sensors from YSI: ROX Reliable Oxygen (YSI 6150) and 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 YSI 6130 rhodamine WT sensor.

The OMS V2 also incorporates innovations in sensor configuration such as a conductivity and temperature module that fits into the sonde body.

- 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® data analysis software
- Compatible with YSI 650MDS display and datalogger



Parameters:

Conductivity/Salinity

Depth/Level

Temperature

Plus one of these optical sensors:

Blue-green Algae PC or PE

Chlorophyll

Dissolved Oxygen

Rhodamine

Turbidity



YSI 600OMS Sensor Specifications

	Range	Resolution	Accuracy	
ROX™ Optical Dissolved Oxygen* % Saturation 6150 Sensor	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 6150 Sensor	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	±0.4 ft, ±0.12 m ±0.06 ft, ±0.02 m ±0.01 ft, 0.003 m
Turbidity* 6136 Sensor	0 to 1,000 NTU	0.1 NTU	±2% of reading or 0.3 NTU, whichever is greater*	
Rhodamine* 6130 Sensor	0-200 µg/L	0.1 µg/L	±5% reading or 1 µg/L, whichever is greater	

• Max. depth rating for optical probes is 200 ft, 61 m; depth rating for anti-fouling optical probes is 656 ft, 200 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* 6131 Sensor	~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* 6132 Sensor	~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	~0 to 400 µg/L 0 to 100 RFU	~0.1 µg/L Chl a§§§	0.1 µg/L Chl 0.1% RFU	R ² > 0.9999****

• Max. depth rating for optical probes is 200 ft, 61 m; depth rating for anti-fouling optical probes is 656 ft, 200 m. RFU = Relative Fluorescence Units

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

§ 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 600OMS V2 Sonde Specifications

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

Ordering Information

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

YSI

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ISO 9001
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Printed in the USA. E16-05 June 2012



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