



600 OMS Optical Monitoring System

Turbidity, Chlorophyll, or Rhodamine in a Low-cost Package

In response to the growing need for a low-cost, “single parameter” optical measurement system in a smart sonde, YSI has released the 600 Optical Monitoring System (OMS). The 600 OMS, developed from the 600 platform (1.6 inch diameter), can measure turbidity, chlorophyll, or rhodamine in combination with temperature, conductivity, and depth or vented level in fresh, sea, or polluted water.

The 600 OMS utilizes the field-proven YSI 6136 turbidity sensor and YSI 6025 chlorophyll sensor, as well as the revolutionary YSI 6130 rhodamine WT sensor. The OMS also incorporates innovations in sensor configuration such as a conductivity and temperature module that fits into the sonde body.

- ISO 7027 nephelometric method for turbidity
- Wiped optics (prevents fouling)
- Ideal for long-term deployments
- Low power requirements
- Sensors (turbidity, chlorophyll, and rhodamine WT) are field-replaceable
- Larger memory—150,000 readings
- Integrate with DCPs
- Compatible with EcoWatch® for Windows® data analysis software
- Compatible with YSI 650 MDS display/logger



600 OMS and optical sensors.

Pure
Data for a
Healthy
Planet.™

Applications include:

Drinking water reservoirs

Algal bloom

Stormwater

Dredging

Coastal, bays, and estuaries

Groundwater





Y S I Environmental

Pure Data for a Healthy Planet.™



Handheld Sampling



Unattended Monitoring



Integrated with data collection platform

To order or for more information, contact YSI Environmental.

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ISO 9001
ISO 14001

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Printed in USA 0103 E16-03



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Who's Minding the Planet?™

YSI 600 OMS (Optical Monitoring System)

Turbidity	Range	0 to 1,000 NTU
	Resolution	0.1 NTU
	Accuracy	±5% of reading or 2 NTU, whichever is greater
	Depth	61 m (200 feet)
Chlorophyll	Range	0 to 400 µg/L; 0 to 100% FS
	Resolution	0.1 µg/L Chl; 0.1%FS
	Depth	61 m (200 feet)
Rhodamine WT	Range	0 to 200 µg/L; 0 to 100% FS
	Resolution	0.1 µg/L; 0.1%FS
	Accuracy	±1.0 µg/L; ±5% of reading
	Depth	61 m (200 feet)
Temperature	Range	-5 to +45°C
	Resolution	0.01°C
	Accuracy	±0.15°C
Conductivity	Range	0 to 100 mS/cm
	Resolution	0.001 or 0.1 mS/cm (range-dependent)
	Accuracy	±0.5% of reading + 0.001 mS/cm
Salinity	Range	0 to 70 ppt
	Resolution	0.01 ppt
	Accuracy	±1% of reading or 0.1 ppt, whichever is greater
Shallow Depth	Range	0 to 30 feet (0 to 9 m)
	Resolution	0.001 feet (0.001 m)
	Accuracy	±0.06 feet (±0.02 m)
Medium Depth	Range	0 to 200 feet (0 to 61 m)
	Resolution	0.001 feet (0.001 m)
	Accuracy	±0.4 feet (±0.12 m)
Vented Level	Range	0 to 30 feet (0 to 9 m)
	Resolution	0.001 feet (0.0003 m)
	Accuracy	±0.01 feet (±0.003 m)
Physical Specifications	Size	4.19 cm OD x 54.1 cm Long (1.65" x 21.3")
	Weight with batteries	0.7 kg (1.5 lbs)
	Weight without batteries	0.6 kg (1.3 lbs)
	Internal Power Supply	4 AA alkaline cells
	Battery Life	25 to 30 days at 15-minute sampling intervals at 25°C

How To Order

600-01	600 sonde with conductivity, temperature, optical port, and memory
600-02	600 sonde with conductivity, temperature, optical port, memory, internal power*
600-03	600 sonde with shallow depth, conductivity, temperature, optical port, and memory
600-04	600 sonde with shallow depth, conductivity, temperature, optical port, memory, internal power*
600-05	600 sonde with medium depth, conductivity, temperature and optical port, and memory
600-06	600 sonde with medium depth, conductivity, temperature, optical port, memory, internal power*
600-07	600 sonde with shallow vented depth, conductivity, temperature and optical port, and memory
600-08	600 sonde with shallow vented depth, conductivity, temperature, optical port, memory, internal power*
6136 Turbidity	Turbidity Sensor
6025 Chlorophyll	Chlorophyll Sensor
6130 Rhodamine WT	Rhodamine WT Sensor

*internal battery power, includes batteries