



Profile of the 6600EDS depicting (clockwise from bottom) temperature/conductivity, turbidity, Rapid Pulse™ dissolved oxygen, chlorophyll and pH/ORP—all of which (except conductivity) are kept free of fouling by the patented Clean Sweep® universal wiper assembly, as well as individual optical wipers.

A prototype 6600EDS after continuous deployment for 80 days in Buzzards Bay, MA. The sensor in the foreground is the active DO sensor. The sensor at top-right was used as a nonwiped fouling reference. Note extensive fouling by plant and animal species on the non-wiped

Pure
Data for a
Healthy
Planet ®

Sensor Performance verified by the EPA Environmental Technology Verification Program.*

6600EDS Extended Deployment System

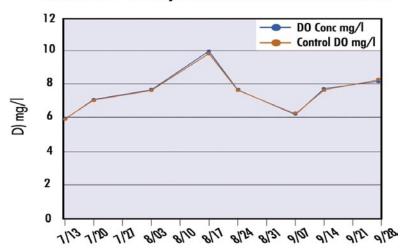
Measure over 10 parameters in severe fouling environments Featuring Patented Clean Sweep® Anti-fouling Technology

Building upon the unprecedented accuracy and reliability of YSI's stirring-independent Rapid Pulse™ dissolved oxygen system, as well as on the improved and proven wiped optical sensors, YSI offers the YSI 6600EDS (Extended Deployment System).

- Provides unprecedented DO accuracy and longevity in aggressive fouling environments
- Patented wiped fouling protection for turbidity, chlorophyll,
 DO, BGA, pH, and ORP sensors
- Ideal for extended, long-term deployments
- Virtually maintenance free
- Sensors are field-replaceable
- Integrates with DCPs (via RS-232 or SDI-12)

Initial field studies of the YSI 6600EDS show that the system provides unprecedented DO accuracy and longevity in aggressive fouling environments. The 6600EDS was inspected after 80 days of an ongoing deployment performance evaluation. The Rapid Pulse™ DO sensor performed within specifications throughout this deployment without the need for recalibration or cleaning. During this deployment, the instrument was removed once for battery replacement; none of the sensors was cleaned or recalibrated.

6600 EDS 80-Day DO Performance Evaluation



Remarkably close agreement (mean error 0.16mg/l) between the continuously deployed sonde and the control measurements was observed throughout an 80-day deployment.



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Sensors with listed with the ETV logo were submitted to the ETV program on the YSI 6600EDS. 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 venification 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.

Sensor performance verified*

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



YSI 6600EDS Sensor Specifications

	Range	Resolution	Accuracy
Dissolved Oxygen* % Scaturation 6562 Rapid Pulse™ Sensor*	0 to 500%	0.1%	0 to 200%: ±2% of reading or 2% air saturation, whichever is greater; 200 to 500%: ±6% of reading
Dissolved Oxygen* mg/L 6562 Rapid Pulse™ Sensor*	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: \pm 0.2 mg/L or 2% of reading, whichever is greater; 20 to 50 mg/L: \pm 6% 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	$\pm 1\%$ of reading or 0.1 ppt, whichever is greater
Temperature 6560 Sensor* ET✓	-5 to +50°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 ±0.01 ft, 0.003 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	$\pm 5\%$ reading or 1 μ g/L, whichever is greater

 $\bullet\,$ Maximum depth rating for all standard optical sensors is 200 feet, 61 m. Also available in Deep Depth option: 656 feet, 200 m.

**In YSI AMCO-AEPA Polymer Standards.

•• 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).

	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 standard optical probes is 200 feet, 61 m. Also available in Deep Depth option 656 ft 200 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.	\$ Estimated from cultures of <i>Microcystis aeruginosa</i> . \$\$ Estimated from cultures <i>Synechococcus sp.</i> \$\$\$ Determined from cultures of <i>Isochrysis sp.</i> and chlorophyll <i>a</i> concentration determined via extractions.		**Relative to serial dilution of Rhodamine WT (0-400 ug/L). ***Relative to serial dilution of Rhodamine WT (0-8 ug/L). ****Relative to serial dilution of Rhodamine WT (0-500 ug/L).

YSI 6600EDS Sonde Specifications

Medium	Fresh, sea or polluted water	Software	EcoWatch*
Temperature Operating Storage	-5 to +50°C -10 to +60°C	Length, no depth	21.6 in, 54.9 cm
Communications	RS-232, SDI-12		12 V DC 8 C-size alkaline batteries