



## 6600 EDS Extended Deployment System Measure over 10 parameters in severe fouling environments



**Figure 1.** Profile of the new 6600 EDS depicting (clockwise from bottom-right), Rapid Pulse™ dissolved oxygen sensor, chlorophyll, pH/ORP, and turbidity, all of which are maintained free of fouling by the universal wiper assembly, as well as individual optical wipers.



**Figure 2.** A prototype 6600 EDS 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 non-wiped fouling reference. Note extensive fouling by plant and animal species on the non-wiped sensor.

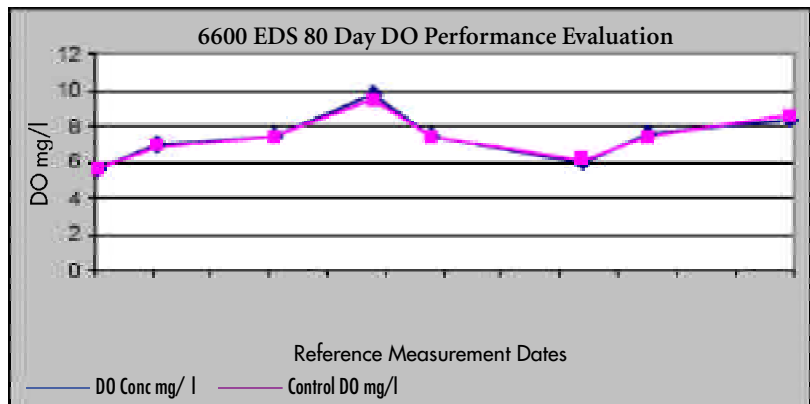
Building upon the unprecedented accuracy and reliability of YSI's *stirring-independent* Rapid Pulse™ dissolved oxygen system, as well as on the improved and proven wiped turbidity sensor, YSI has produced the YSI 6600 EDS (Extended Deployment System).

- Provides unprecedented DO accuracy and longevity in aggressive fouling environments
- Wiped fouling protection for turbidity, chlorophyll, DO, pH, and ORP sensors
- Ideal for extended, long-term deployments
- Virtually maintenance free
- Sensors are field-replaceable
- Integrates with DCPs

Initial field studies of the YSI 6600 EDS indicate that the system provides unprecedented DO accuracy and longevity in aggressive fouling environments. The 6600 EDS was inspected after 80 days of an ongoing deployment performance evaluation (see Fig. 2). 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 were cleaned or recalibrated.

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Compatible with  
EcoWatch™ for  
Windows® software



**Figure 3.** Remarkably close agreement (mean error 0.16mg/l) between the continuously deployed sonde and the control measurements was observed throughout an 80-day deployment.



Pure Data for a Healthy Planet.™

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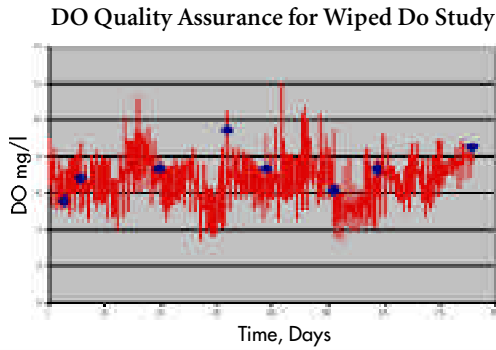


Figure 4. DO measurements made continuously at 15-minute intervals for 80 days. Eight reference measurements (blue symbols) were made during this deployment. Data depicts excellent agreement with reference measurements.

— Control DO mg/l — DO mg/l

### YSI 6600 EDS (Extended Deployment System)

<b>Dissolved Oxygen % Saturation</b>	Range Resolution Accuracy	0 to 500% 0.1% 0 to 200%: ±2% of reading or 2% air saturation, whichever is greater; 200 to 500%: ±6% of reading
<b>Dissolved Oxygen mg/L</b>	Range Resolution Accuracy	0 to 50 mg/L 0.01 mg/L 0 to 20 mg/L: ±2% of reading or 0.2 mg/L, whichever is greater; 20 to 50 mg/L: ±6% of reading
<b>Conductivity †</b>	Range Resolution Accuracy	0 to 100 mS/cm 0.001 to 0.1 mS/cm (range-dependent) ±0.5% of reading + 0.001 mS/cm
<b>Temperature</b>	Range Resolution Accuracy	-5 to +45°C 0.01°C ±0.15°C
<b>pH</b>	Range Resolution Accuracy	0 to 14 units 0.01 unit ±0.2 unit
<b>ORP</b>	Range Resolution Accuracy	-999 to +999 mV 0.1 mV ±20 mV
<b>Salinity</b>	Range Resolution Accuracy	0 to 70 ppt 0.01 ppt ±1% of reading or 0.1 ppt, whichever is greater
<b>Shallow Depth</b>	Range Resolution Accuracy	0 to 30 feet (0 to 9 m) 0.001 feet (0.001 m) ±0.06 feet (±0.02 m)
<b>Medium Depth</b>	Range Resolution Accuracy	0 to 200 feet (0 to 61 m) 0.001 feet (0.001 m) ±0.4 feet (±0.12 m)
<b>Deep Depth</b>	Range Resolution Accuracy	0 to 656 feet (0 to 200 m) 0.001 feet (0.001 m) ±1 feet (±0.3 m)
<b>Vented Level</b>	Range Resolution Accuracy	0 to 30 feet (0 to 9 m) 0.001 feet (0.0003 m) ±0.01 feet (0.003 m)
<b>Turbidity</b>	Range Resolution Accuracy Depth	0 to 1,000 NTU 0.1 NTU ±5% of reading or 2 NTU, whichever is greater 200 feet (60.96 m)
<b>Chlorophyll</b>	Range Resolution Depth	0 to 400 µg/L 0.1 µg/L Chl; 0.1%FS 200 feet (60.96 m)

For more information about this sonde, please call Endeco/YSI at 800-363-3269 or call YSI, Inc. at 800-897-4151. You may also send e-mail inquiries to [environmental@ysi.com](mailto:environmental@ysi.com) or visit [www.ysi.com](http://www.ysi.com).

† 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).