



YSI Environmental



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

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).



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

- 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. 1). 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.

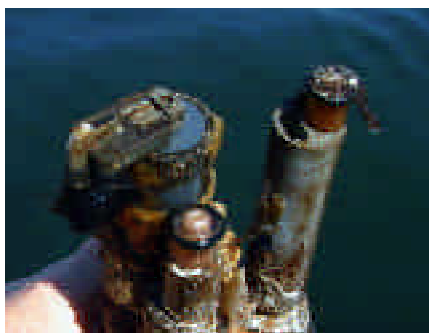


Figure 1. A prototype 6600 EDS after continuous deployment for 80 days in Buzzards Bay, MA. The sensor in the foreground is the active DO sensor. The sensor at top-right was used as a non-wiped fouling reference. Note extensive fouling by plant and animal species on the non-wiped sensor.

Pure
Data for a
Healthy
Planet.™

Compatible with
EcoWatch™ for
Windows® software

6600 EDS 80-Day DO Performance Evaluation

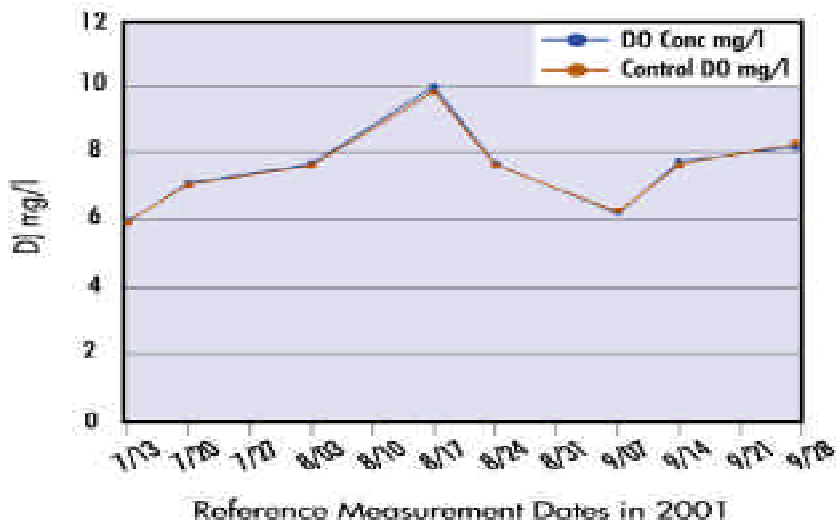


Figure 3. Remarkably close agreement (mean error 0.16mg/l) between the continuously deployed sonde and the control measurements was observed throughout an 80-day deployment.



Pure Data for a Healthy Planet.™

To order or for more information, contact YSI Environmental.

800 897-4151

www.YSI.com

YSI Environmental
937 767 7241
Fax 937 767 9353
environmental@YSI.com

Endeco/YSI
508 748 0366
Fax 508 748 2543
environmental@YSI.com

YSI Environmental
European Support Centre
44 1730 710 615
Fax 44 1730 710 614
europe@YSI.com

YSI (Hong Kong) Limited
852 2891 8154
Fax 852 2834 0034
hongkong@YSI.com

YSI/Nanotech (Japan)
81 44 222 0009
Fax 81 44 222 1102
nanotech@YSI.com

YSI (Qingdao) Limited
86 532 389 6648
Fax 86 532 389 6647
china@YSI.com

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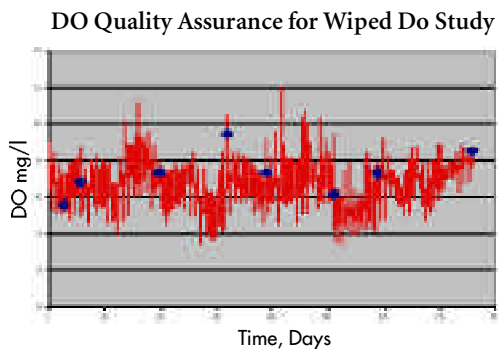


Figure 4. DO measurements made continuously at 15-minute intervals for 80 days. Eight reference measurements (blue symbols) were made during this deployment. Data depicts excellent agreement with reference measurements.

YSI 6600 EDS (Extended Deployment System)

Dissolved Oxygen % Saturation	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
Dissolved Oxygen mg/L	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
Conductivity †	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
Temperature	Range Resolution Accuracy	-5 to +45°C 0.01°C ±0.15°C
pH	Range Resolution Accuracy	0 to 14 units 0.01 unit ±0.2 unit
ORP	Range Resolution Accuracy	-999 to +999 mV 0.1 mV ±20 mV
Salinity	Range Resolution Accuracy	0 to 70 ppt 0.01 ppt ±1% of reading or 0.1 ppt, whichever is greater
Shallow Depth	Range Resolution Accuracy	0 to 30 feet (0 to 9 m) 0.001 feet (0.001 m) ±0.06 feet (±0.02 m)
Medium Depth	Range Resolution Accuracy	0 to 200 feet (0 to 61 m) 0.001 feet (0.001 m) ±0.4 feet (±0.12 m)
Deep Depth	Range Resolution Accuracy	0 to 656 feet (0 to 200 m) 0.001 feet (0.001 m) ±1 feet (±0.3 m)
Vented Level	Range Resolution Accuracy	0 to 30 feet (0 to 9 m) 0.001 feet (0.0003 m) ±0.01 feet (0.003 m)
Turbidity	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)
Chlorophyll	Range Resolution Depth	0 to 400 µg/L 0.1 µg/L Chl; 0.1%FS 200 feet (60.96 m)
Rhodamine	Detection Limit Resolution Accuracy Depth	0.5 µg/L 0-200 µg/L as true dye; 1,000 µg/L as dye tracer ±1 µg/L or ±5% reading 200 feet (60.96 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).