



## YSI 600QS (Quick Sample™)

### *The Easy Solution to Handheld Sampling*



*The 600QS (Quick Sample)*

Packaged for convenience, the combination of the YSI 650MDS display-datalogger and the YSI 600QS sonde allows you to collect 9 parameters simultaneously in real time. Designed for reliable field use, the 650MDS features an IP-67, impact-resistant case, and utilizes internal, non-volatile flash memory that prevents data loss and stores 150 data sets. The 600QS sonde is compact, submersible to 61 m (200 ft) and employs YSI's unprecedented sensor reliability and parameter measurement systems. The 600QS system provides a reliable way to quickly sample fresh, brackish, sea, and polluted waters.

- **Rapid-Pulse™ stirring-independent dissolved oxygen, accepted for compliance monitoring**
- **Collect 9 parameters simultaneously in real time**
- **Dissolved oxygen, dissolved oxygen % saturation, temperature, conductivity, pH, ORP<sup>1</sup>, and depth<sup>1</sup> are measured simultaneously**
- **Specific conductance, salinity, total dissolved solids and resistivity are calculated and displayed with measured parameters at the users discretion**
- **Small compact sonde fits easily into 2-inch wells**
- **Compatible with EcoWatch® for Windows® data analysis software<sup>2</sup>**
- **Menu-driven, easy-to-use interface for 650MDS and 600QS sonde to PC**
- **Sonde communicates via RS-232 to 650MDS and PC, and via SDI-12 to data collection platforms**
- **Easy-to-use sensor diagnostics that help insure accurate, high quality data acquisition**
- **3-year warranty on the 650MDS and 2-year warranty on the 600QS sonde.<sup>3</sup>**

<sup>1</sup> optional sensor, <sup>2</sup> EcoWatch is not necessary for operation, calibration or sensor diagnostics  
<sup>3</sup> refer to warranty statement for conditions: extended warranties are also available

Pure  
Data for a  
Healthy  
Planet.®

*A cost-effective  
combination of two  
outstanding YSI products*

### **Feature-Packed Performance**

#### *Battery Life*

With the standard alkaline battery configuration of 4 C-cells, the YSI 650 will power itself and a YSI 6600 sonde continuously for approximately 30 hours. Or, choose the rechargeable battery pack option with quick-charge feature.

#### *Optional GPS Interface*

Designed to NMEA protocol, the YSI 650MDS will display and log real-time GPS readings with a user supplied GPS interfaced with YSI 6-Series sondes.



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**ISO 9001**  
**ISO 14001**

Yellow Springs, Ohio Facility

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## YSI 600QS Display & Datalogger (650MDS) Specifications

Temperature	Operating Storage	-10 to +60°C for visible display -20 to +70°C
Waterproof Rating		IP-67 for both the standard alkaline battery configuration and for the rechargeable battery pack option
Connector		MS-8; meets IP-67 specification
Dimensions	Width Length Weight with batteries	4.7 in, 11.9 cm 9 in, 22.9 cm 2.1 lbs, 0.91 kg
Display		VGA; LCD with 320 by 240 pixels with backlight
Power	Standard Optional	4 alkaline C-cells with detachable battery cover Ni metal hydride battery pack with attached battery cover and 110/220 volt charging system
Communications		RS-232 to all sondes, for data transfer to PC, and for software updates
Optional GPS		NMEA 0183; requires user-supplied GPS and YSI 6115 Y-cable
Backlight		4 LEDs illuminating LCD; user-selectable
Keypad		20 keys, including instrument on/off, backlight on/off, enter, esc, 10 number/letter entry keys, 2 vertical arrow keys, 2 horizontal arrow keys, period key, and minus key
Warranty		3 years

## YSI 600QS Sonde (600R) Specifications

Medium		Fresh, sea or polluted water		
Dimensions	Diameter Length Weight	1.65 in, 4.2 cm 14 in, 35.6 cm 1.1 lbs, 0.5 kg		
Power		External only, 12 V DC or power supplied by 650MDS		
Sensor	Range	Resolution	Accuracy	
Rapid Pulse™ Dissolved Oxygen, % air saturation	0 to 500%	0.1 %	0 to 200% : ± 2% of reading or 2% air saturation, whichever is greater; 200 to 500%: ±6% of reading	
Rapid Pulse™ Dissolved Oxygen, mg/L	0 to 50 mg/L	0.01 mg/L	0 to 20 mg/L: ± 0.2 mg/L or 2% of reading, whichever is greater; 20 to 50 mg/L: ±6% 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	
pH	0 to 14 units	0.01 unit	±0.2 unit	
ORP	-999 to +999 mV	0.1 mV	±20 mV in Redox standard solutions	
Depth	Medium	0 to 200 feet, 0 to 61 m	0.001 feet, 0.001 m	±0.4 feet, ±0.12 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).

## Ordering Information

600QS-01	Temperature, Conductivity, pH, DO, 25 ft. Detachable Cable, 650-01 MDS, 600QS Sonde
600QS-02	Temperature, Conductivity, pH, DO, 25 ft. Detachable Cable, 650-01 MDS, 600QS Sonde, Depth 0-200 ft.
600QS-03	Temperature, Conductivity, pH, DO, 50 ft. Detachable Cable, 650-01 MDS, 600QS Sonde
600QS-04	Temperature, Conductivity, pH, DO, 50 ft. Detachable Cable, 650-01 MDS, 600QS Sonde, Depth 0-200 ft.
600QS-05	Temperature, Conductivity, pH/ORP, DO, 25 ft. Detachable Cable, 650-01 MDS, 600QS Sonde
600QS-06	Temperature, Conductivity, pH/ORP, DO, 25 ft. Detachable Cable, 650-01 MDS, 600QS Sonde, Depth 0-200 ft.
600QS-07	Temperature, Conductivity, pH/ORP, DO, 50 ft. Detachable Cable, 650-01 MDS, 600QS Sonde
600QS-08	Temperature, Conductivity, pH/ORP, DO, 50 ft. Detachable Cable, 650-01 MDS, 600QS Sonde, Depth 0-200 ft.

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