



DB600 REAL-TIME DATA BUOY

ALL-IN-ONE, RUGGED, REMOTE MONITORING SYSTEM

Deploying a high-quality data buoy has never been easier, or more affordable.

The DB600 arrives with fully-integrated electronics and can be assembled and deployed by one person. With its unique all-in-one (Ai1) telemetry system, high-efficiency solar-based power system, and field-ruggedized YSI buoy, the DB600 can be deployed for low-seastate and freshwater applications.



Lightweight; deployable by one person



Lockable deployment tube secures sensor against loss



Marine-grade materials tough enough for long-term deployments



Compatible with industry-leading sensors, YSI EXO and Aanderaa DCS

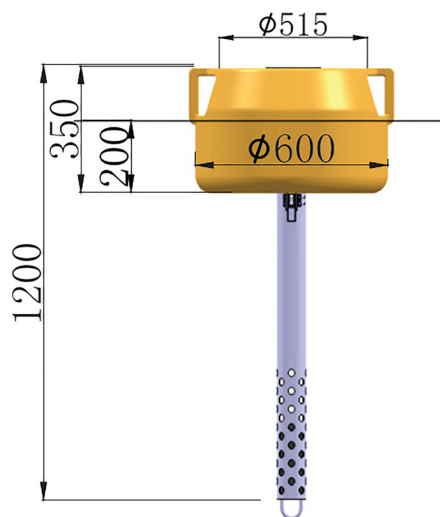


Ideal for use with YSI HydroSphere



a xylem brand

DB600 BUOY ALL-IN-ONE, REAL TIME DATA BUOY



Package Includes:



YSI buoy



Stainless steel sensor deployment tube



Ai1 logging and communication system



Solar power system



Sensor cable



Navigation beacon

DB600 Specifications

Diameter	600 mm
Material	Polyethylene float. SS Sonde Tube
Weight	21 kg (including sonde tube)
Freeboard	200 mm at maximum weight

Ai1 Standard Config Specifications

Connection	Plug-n-play, depending on sensor selections at time of purchase
Inputs	Analog and digital
Communications	4G or Iridium
Power	18 W solar, 7 Ah battery (supports a range of sensor configurations)
Waterproof	IP67

Ai1 Detailed Specifications

Inputs & Outputs

- 6 inputs, 24-bit resolution, -100 to +2500 mV range, $\pm 0.04\%$ accuracy (0 to 40°C)
- 7 configurable digital and pulse counting ports
- Integrated USB port, 9-pin RS232 serial, Dual 5V RS232 ports
- Specify top or bottom USB port at time of order

Communications

- Select 4G cellular or Iridium radio
- Management of communications through datalogger program for power optimization
- Cellular models support HydroSphere connection.

Power

- 2x9 W solar panels (18 W total / east-west exposure), 7Ah lithium polymer battery, adjustable 5-20 V switched sensor output
- Panel-mounted, 1 A fuse for protection and user control

General

- Inbuilt status LED indicators
- IP67 (NEMA 4X) before being modified for sensor mounting or cable entry
- Battery-backed internal clock ± 1 min/month. Execution rate from 0.1s to once/day
- -5°C to +50°C operating range (lithium charging)
- 1 year warranty, return to base, parts and labor