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
YSI 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, ±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

© 2020 Xylem, Inc. XA0091