DB600 Buoy

QUICK START GUIDE

The **DB600 Quick Start Guide** is intended to provide you with the basic steps needed to set up your buoy after unpacking it. This Guide will walk you through the steps of physically assembling your buoy, affixing the All-in-One (Ai1) Logging & Communications system, attaching the mooring, connecting your sonde, and finally connecting via HydroSphere (where applicable). Before starting any of these steps, please visually inspect your system for any damage that may have occurred during shipment.

Items Required During Assembly

- Safety Goggles
- Work Gloves
- Standard Flat & Phillips Head Screw Drivers
- Metric Wrenches: 10 mm, 13 mm, 16 mm
- Metric Allen Wrenches: 5 mm, 6 mm, 8 mm
- O-Ring Grease
- Customer supplied padlock

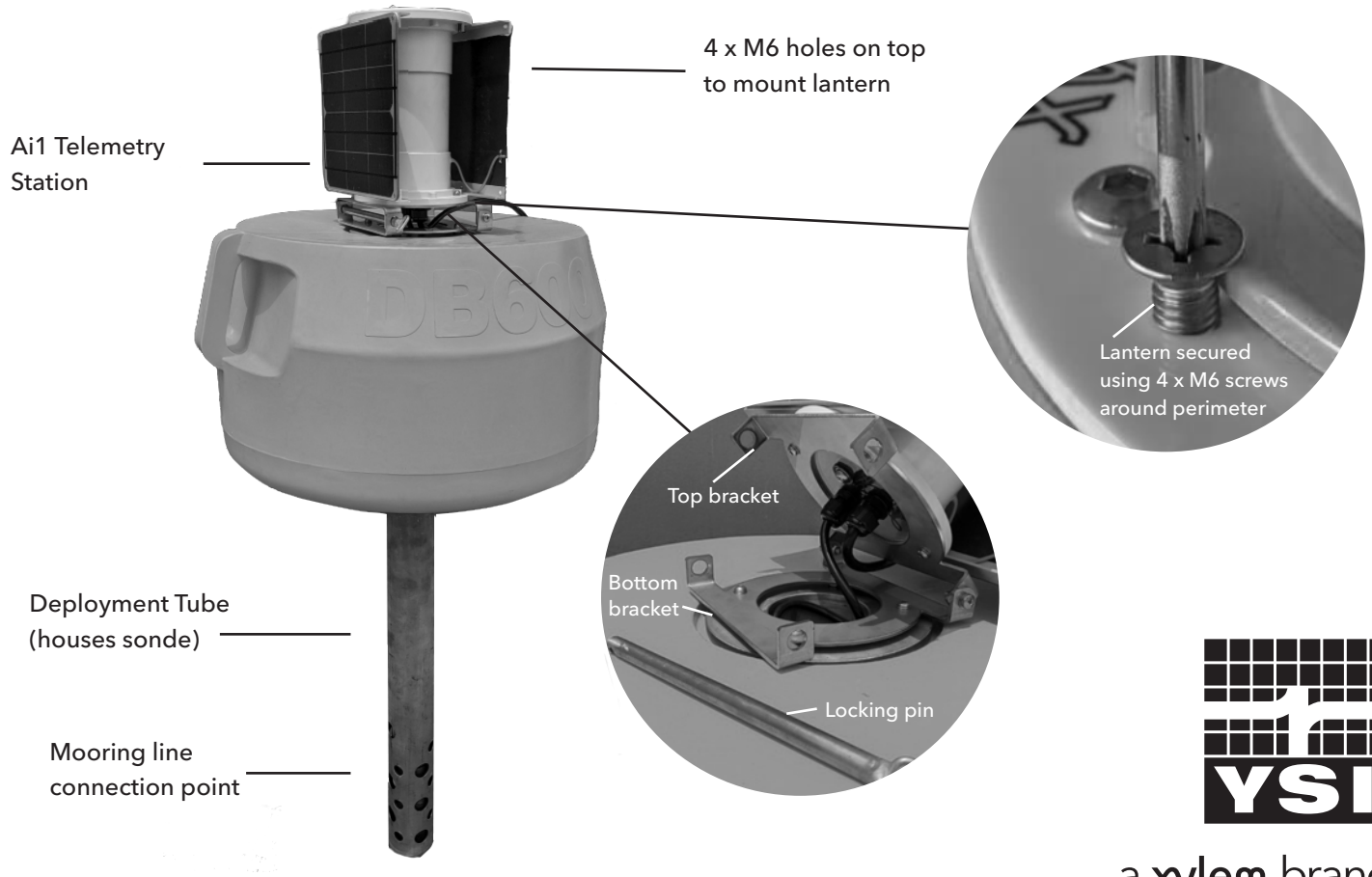

Figure 1: Diagram explaining the components of the DB600 Buoy

a xylem brand

The DB600 requires the following basic assembly steps before deployment. A more customized system may require additional steps; refer to the DB600 User's Manual as needed.

1 Install Deployment Tube

- The deployment tube fits down through the top of the buoy. Note the orientation of the side bracket that prevents rotation of the tube in the DB600.
- Fit the locking collar to prevent the instrument tube from lifting out of the top of the DB600. The locking collar is fixed in position with the 2 x M8 bolt sets with locking nuts to prevent undoing (Figure 2).

Figure 2: Fit the locking collar to prevent the deployment tube from lifting out of the top of the DB600.

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2 Mount the Ai1 onto the DB600 buoy

Use the two security pins supplied to connect the bracket on the bottom of the Ai1 to the matching bracket on the top of the DB600 (Figure 3). The pins may be held in position with either:

- The included split pins or
- A user-supplied padlock for extra security

Figure 3: Use the security pin to connect the Ai1 to the top of the DB600. A padlock may be used for extra security.

3 Connect the mooring system

- Connect the mooring chain using the D-Shackle included (Figure 4).
- The free end of the rope is to connect to the user-supplied anchor or mooring block. Take care to ensure a suitably-sized anchor is used for the local conditions.

When handling the mooring chain, rope, or wire, gloves should be worn to prevent injuries to hands.

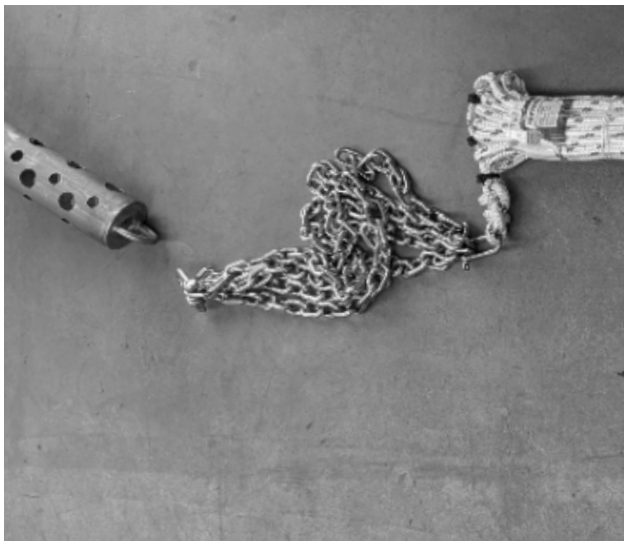

Figure 4: Connect the mooring chain to the instrument tube and (user supplied) anchor.

4 Connect sensor and deploy

- Use O-ring grease to lubricate and protect pins and connect sensor cable to the instrument and the connector on the bottom of the Ai1 (Figure 5).
- Deploy the sonde in the instrument tube, ensuring the sonde is operating and configured.
- Record the parameter names and units for configuration in HydroSphere.

Use caution to prevent pinching or other injuries to hands.

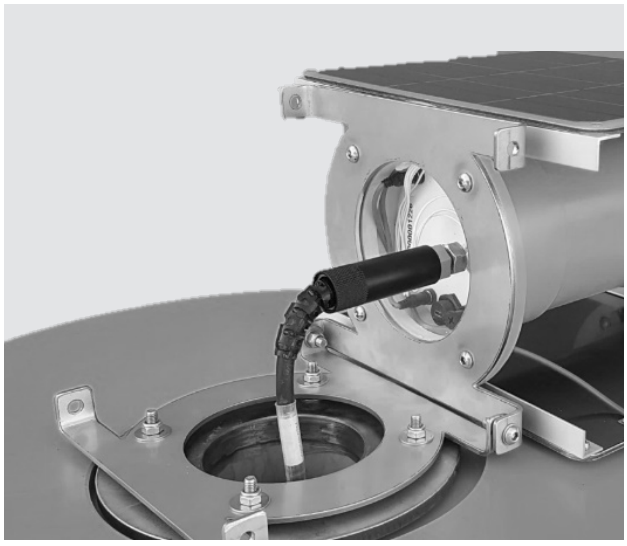

Figure 5: Connect the sensor cable to the instrument and the connector on the bottom of the Ai1.

5 Turn on the Ai1

- Remove the plug from the access port and turn on the switch (Figure 6). The power LED will flash to indicate the program is operating. Return the plug and hand tighten closed. The USB port may be used to communicate directly with the Ai1, but that is not required for quick deployment.

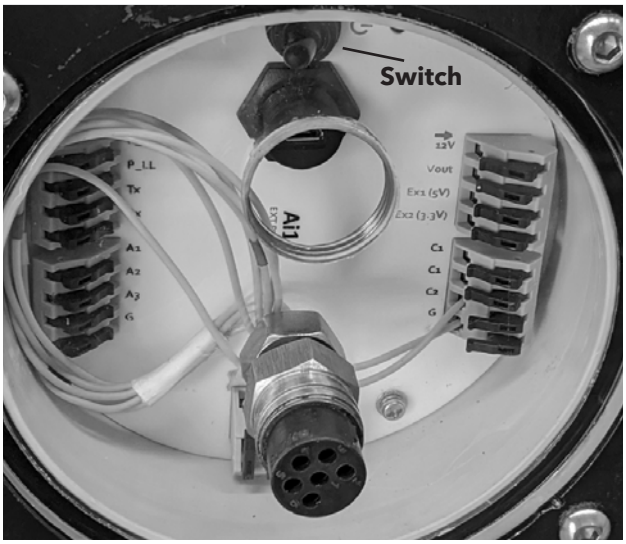

Figure 6: Remove the plug from the access port and turn on the switch.

6 Access HydroSphere

- Your system has been added to your HydroSphere account. Upon turning the system on, you can log in to HydroSphere to setup data displays, alarms, and data exports. If you have not received access you can request it here: HydroSphere@xyleminc.com.

For additional information please refer to your HydroSphere Manual.

Figure 7: YSI HydroSphere provides secure, real-time monitoring.

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