

Getting Started with the H-ADCP

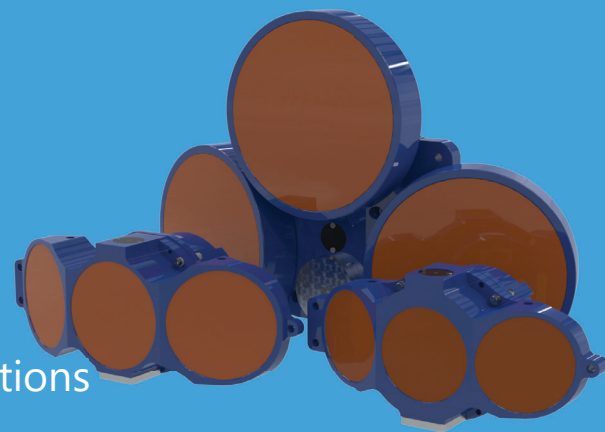
Step

1

Verify all parts are present

The standard Monitor/Sentinel ADCP includes:

- H-ADCP
- I/O Cable
- Shipping case
- Spare Parts Kit
- Software and Documentation download instructions
- Check packing slip for additional options



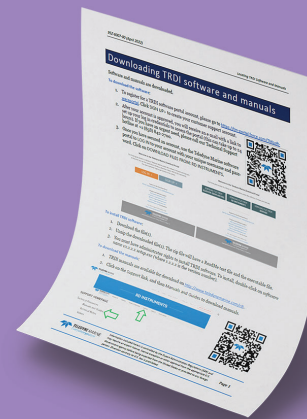
Step

2

Download the Software and Documentation

See Deployment Guide for details:

- Install TRDI Toolz
- Install ADCP Utilities (optional), other as needed
- Download H-ADCP manual



Step

3

Communication and Power Setup

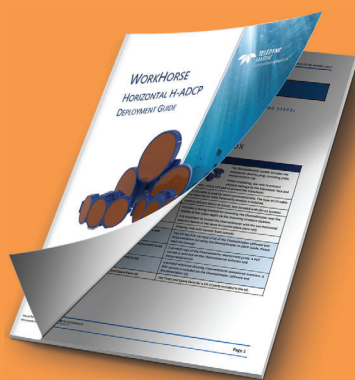
See the reverse side of this guide for detailed instructions.



Step

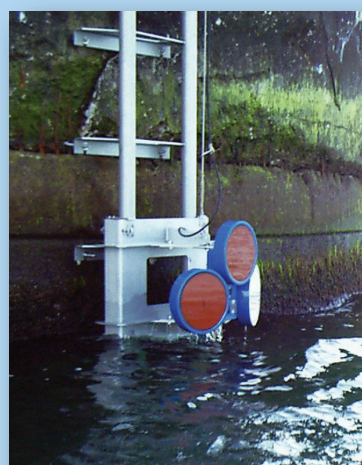
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Read the Deployment Guide



PRODUCT FEATURES

- **Increased Range:** 300-kHz frequency and narrow $<1^\circ$ beam work together to ensure an extended profiling range of 200 meters or more.
- **Increased Data:** Acoustic Doppler technology provides users with the capability to measure from 1 to 128 points, providing exponentially more data than a single point instrument.
- **Real-Time Data:** Easily installed, the H-ADCP provides unobtrusive real-time data—for real-time decision-making.
- **Robust Construction:** Designed so that velocity data remain accurate over time without the need for user calibration, and constructed to allow installations in the most hostile environments.
- **Ease of Operation:** Pre-configured for simple operation, the H-ADCP ensures optimum performance with a minimal learning curve.

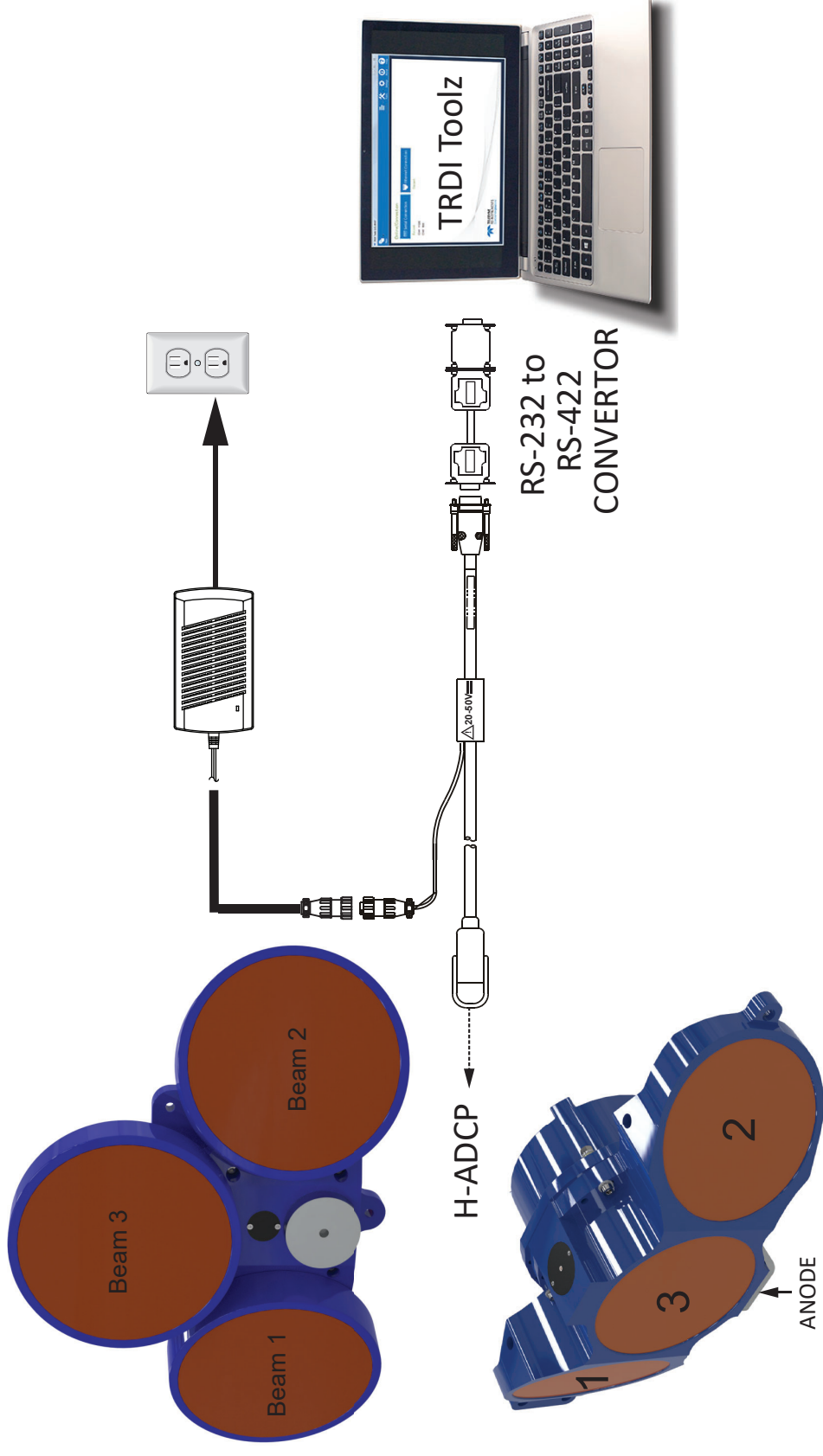


The 300 kHz long-range Horizontal Acoustic Doppler Current Profiler (H-ADCP) is a narrow beam acoustic monitoring system that "looks out" horizontally from an offshore or coastal mooring or structure to measure near-surface water currents and multi-directional waves.

This tool uses patented BroadBand signal processing to obtain an optimal combination of range, resolution, and data quality. The H-ADCP measures currents out to 200 meters horizontal range, at up to 128 individual points, providing a clear illustration of the complete flow structure.

Step 3 Communication and Power Setup - Detailed Instructions

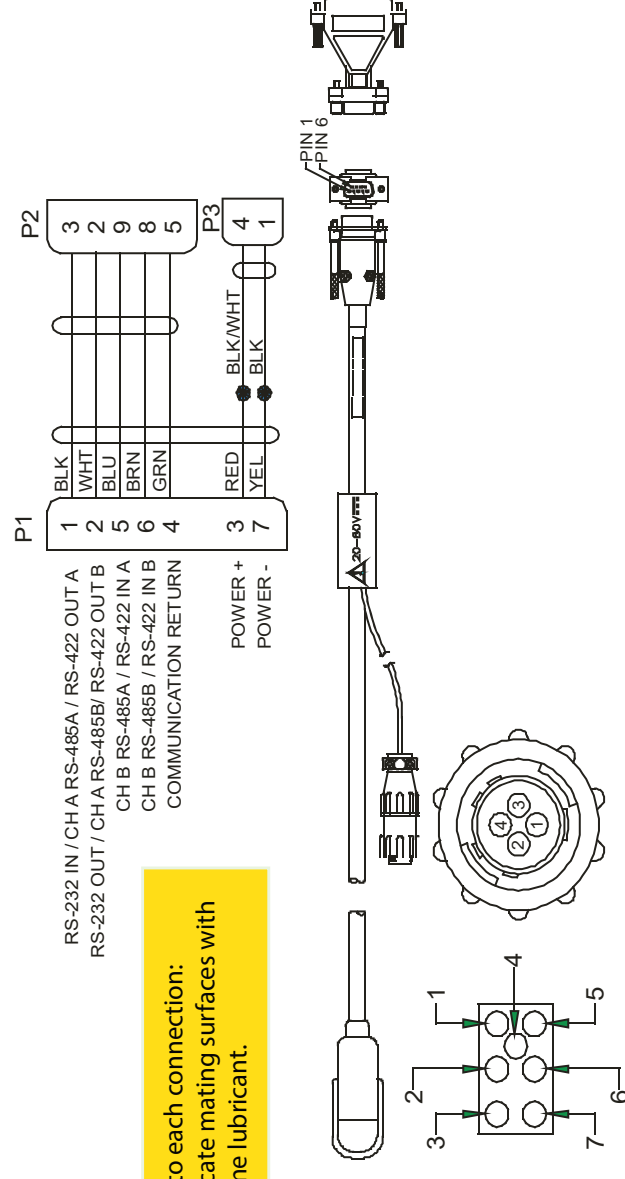
Step 3 A Cable Connection Overview



Step 3 B Connecting the I/O Cable

1. Place the H-ADCP with the anode side downward on a soft surface.
2. Remove the Dummy Plug and lubricate the connector.
3. Push the cable straight onto the connector ensuring the pins are properly aligned. Roll the retaining strap over the connector.
4. Attach the I/O cable to the computer's serial communication port. Use an RS-422 to RS-232 adapter if the ADCP is configured as RS-422.
5. Connect the AC power adapter to the I/O cable.
6. Establish communications with the ADCP.

Prior to each connection:
Lubricate mating surfaces with
Silicone lubricant.



Step 3 C Setting Up the Communications

To establish communications with the H-ADCP:

1. Connect and power the system as shown in Steps 3A and 3B.
2. Start the *TRDI Tool* software (installed in Step 2).
3. Select **New Serial Connection**.
4. Select the COM Port the serial cable is connected to and set the Baud Rate from the drop down lists.



5. Click the **Connect** button. Once connected, the button will change to Disconnect.
6. Click inside the terminal window and then click the **Break** (⚡) button located at the bottom left of the terminal window. The wakeup banner below will be displayed.

[BREAK Wakeup B]
WorkHorse Horizontal Broadband ADCP Version 11.10
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Refer to the Deployment Guide for further information.