TELEDYNE MARINE

Workhorse Quartermaster

150 kHz ADCP

Teledyne RD Instruments' WORKHORSE QUARTERMASTER Acoustic Doppler Current Profiler (ADCP) has been designed to fill the gap between Teledyne RDI's higher frequency 300 kHz Workhorse units and the 75 kHz Long Ranger. The Quartermaster is ideally suited for current profile measurements that may require up to 300m range. The unit provides an unsurpassed combination of range, resolution, and versatility, thanks to Teledyne RDI's Broadband technology.

The highly flexible Workhorse Quartermaster is available in the following configuration: direct read or self-contained with a two and four battery pack option.. The Quartermaster is ideally suited for:

- Ocean observatories
- Shelf-edge profiling
- Upper ocean dynamics

Third-party solutions

Collect data at your desk: the Quartermaster can operate in real-time or stored-data mode. Third-party products are available for delivery of data via an acoustic modem and radio data transfer direct to your desktop.

PRODUCT FEATURES

- **Versatility:** The QuarterMaster offers ranges of up to 300m, as well as self-contained and direct read configurations.
- **Precision data:** Teledyne RDI's Broadband signal processing produces high-resolution, precise measurements without compromising battery life.
- **Reliability:** Set it and forget it; the highly reliable and energy-efficient Quartermaster can be deployed for three, six, or even twelve months of worry-free operation.
- **4-beam solution:** Teledyne RDI's 4-beam design provides a redundant data source in case of a blocked or damaged beam, as well as an independent measure known as error velocity to ensure the quality of the data.







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TECHNICAL SPECIFICATIONS





2 The first cell range is the distance from the transducer to the center of the first cell. 3 Maximum range is a nominal value based on 5°C, 35ppt, and typical ocean backscatter; actual range will vary depending on environmental conditions. 4 Assuming the ADCP is pointed vertically (0° tilt), the maximum range is limited to 94% of the distance to the surface. 5 Assumes a power supply of 32VDC (typical average battery voltage). 6 <= 1.0° is commonly achieved after calibration.

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