200m Mini Altimeter Kit

AIRMAR’s 200m Mini was designed for use as an altimeter on AUV’s and ROV’s. The kit includes a standalone, compact transceiver board that mounts on the electronics chassis and a depth tolerant transducer that is rated to 1,000m.

FEATURES

- Designed for AUV’s and ROV’s
- Ultra Compact Design
- Minimal Power Consumption
- 100% Made in the U.S.A
- NMEA 0183 Protocol

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When performance matters most we’ve got you covered.
SPECIFICATIONS

NMEA 0183* Standard Output Sentences

Power output from transmitter: 100W
Reverse polarity protection: Yes
Power supply voltage: 9 – 40 VDC, Regulated
Average current draw: 150mA @ 12 V for 200 kHz
NMEA 0183 Baud Rate: 4800 (Default)
Full Auto mode data output rate: From 0.1 to 25 sec/interval
Manual mode: Output rate equal to ping rate
Flash reprogrammability: Using boot loader with encryption
Operating temperature range: -5°C to +60°C
Storage temperature range: -30°C to +70°C
Beam Angle: 15° @ -3dB
Minimum depth reading: 0.4m, limited in manual mode
Maximum depth reading: 200m, limited in manual mode
Depth display resolution: 1 cm
Depth accuracy: 99.4% at full range (see accuracy table for more info)
Transducer depth rated to: 1000m
Housing type offered: M107
Cable length: 15.5"
Connector: 3-pin female
Transducer weight: 5oz/140g
Sounding rate: In full auto mode, sounding rate is variable with depth, in manual mode, sounding rate is configurable up to 10 times per second. Data output rate and ping rate are the same in manual mode, one ping produces one depth output. In full auto mode, data output rate is configurable (0.1 to 25 seconds per interval)

*NMEA 0183 is a serial data bus standard communications protocol that permits different types of electronic equipment to communicate. For more information visit www.nmea.org.

ACCURACY

(Based on tank testing)

<table>
<thead>
<tr>
<th>Actual</th>
<th>Reported</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.05m</td>
<td>3.07m</td>
<td>+0.02m</td>
</tr>
<tr>
<td>4.57m</td>
<td>4.59m</td>
<td>+0.02m</td>
</tr>
<tr>
<td>5.79m</td>
<td>5.82m</td>
<td>+0.03m</td>
</tr>
</tbody>
</table>

Note: A minimum test tank of 50 gallons is recommended as smaller tanks may induce reverberation and interfere with measurements.