Purpose

The compass is an optional supplement to the ADCP to reference the ADCP readings to East-West and North-South direction. It is to be installed externally, e.g. in a mast, away from ferromagnetic material.

Conditions & Requirements

- The flux-gate compass shall be of such a design that it operates reliably and accurately under the prevailing flow and environmental conditions.
- The compass shall be easy to operate and maintain.
- The compass shall be supplied with the accessories as needed for effective use.
- All external materials of the compass shall be non-corrosive.
- An operator’s manual, related to the type and model of the compass, shall be part of the delivery.
- The electrical connections shall be of a reliable and sturdy construction.
- The compass and accessories shall be supplied in a sturdy transport case.
- The North-direction of the compass sensor shall be parallel with the longitudinal axis of the boat.
- The installation of the sensor at the bow shall be such that the sensor can easily be removed and re-installed with the same alignment.
- The compass shall have calibration functions. The calibration shall compensate for local magnetic conditions and for the magnetic effects of the boat, including engine, generator on the compass reading.
- The data shall be delivered by serial (RS232) connection either directly to the data acquisition PC or to a ‘deck-box’ (depending on ADCP type and make).
- The compass data format shall comply with NMEA-0183 specification.

Specifications

The purchaser may execute his judicious discretion in the choice of configuration and options.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>flux-gate compass</td>
</tr>
<tr>
<td>accuracy</td>
<td>0.5°</td>
</tr>
<tr>
<td>repeatability</td>
<td>0.2°</td>
</tr>
<tr>
<td>resolution</td>
<td>0.1°</td>
</tr>
<tr>
<td>tilt angle</td>
<td>15°</td>
</tr>
<tr>
<td>power supply</td>
<td>12 VDC or 24 VDC</td>
</tr>
<tr>
<td>output data format</td>
<td>NMEA-0183 compliant</td>
</tr>
<tr>
<td>serial port</td>
<td>RS 232</td>
</tr>
<tr>
<td>output update frequency</td>
<td>1 Hz</td>
</tr>
<tr>
<td>enclosure</td>
<td>compliant to IP65</td>
</tr>
<tr>
<td>operating temperature</td>
<td>0 to 60°C</td>
</tr>
<tr>
<td>operating humidity</td>
<td>100 %</td>
</tr>
</tbody>
</table>

Accessories

- manual
Purpose

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Specifications

The purchaser may execute his judicious discretion in the choice of configuration and options.

- **type**: flux-gate compass
- **accuracy**: 0.5°
- **repeatability**: 0.2°
- **resolution**: 0.1°
- **tilt angle**: 15°
- **power supply**: 12 VDC or 24 VDC
- **output data format**: NMEA-0183 compliant
- **serial port**: RS 232
- **output update frequency**: 1 Hz
- **enclosure**: compliant to IP65
- **operating temperature**: 0 to 60°C
- **operating humidity**: 100 %

Accessories

- manual