**GNSS/IMU**

**Compass VEGA**

**VEGA IS** an integrated system with two GNSS antennas and strapdown inertial measurement unit based on FOGs and silicon accelerometers. The system is intended for generating data on orientation and navigation parameters of marine vehicles in the GNSS-aided mode and in the autonomous mode during short-term miss of the GNSS signals.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Main parameters</th>
<th>RMSE, max</th>
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</thead>
<tbody>
<tr>
<td>Heading</td>
<td>0.2°</td>
</tr>
<tr>
<td>Heel and trim angles</td>
<td>0.08°</td>
</tr>
<tr>
<td>Geographic coordinates</td>
<td>5.0 m</td>
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</tbody>
</table>

**Dimensions:**

- Central device: Ø 250x175 mm
- Antenna module: 1660x300x215 mm

**Weight**

- Central device: 10 kg
- Antenna module: 16 kg

**POWER SUPPLY**

DC voltage +27 V (18 to 32 V deviation)

Power consumption — no more than 50 W

**VEGA PROVIDES**

generation of the current navigation and dynamic parameters of the ship motion in the GNSS-aided mode and their output to a user via the RS-232 opto-isolated channel and in the autonomous mode during short-term miss of the GNSS signals:

- heel angle (roll angle)
- trim angle (pitch angle)
- heading
- geographic coordinates (latitude, longitude, altitude)

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