Minimize Your Drag
The P319 and B117 feature Airmar’s 50/200 kHz, dual-frequency, single-ceramic element in a low-profile housing. Plastic and bronze models are available to accommodate all hull materials. The nearly flush design minimizes drag with only 5 mm (2/10”) extending outside the hull.

Through-Hull Low-Profile 600 W

Applications
- Planing hull powerboats
- Sailboats

Features
- Industry standard for low-profile transducers
- Depth only or depth and temperature
- Good target detail in shallow water at 200 kHz and good deep-water bottom tracking at 50 kHz
- Right-angle cable exit gives low clearance and protection when transducer is stepped on
- Included rubber washer allows tightening of the hull nut to irregular hull surfaces
- Housings are ABYC H-27 compliant
- Optional temperature sensor
- Plastic or bronze housings available
- Boat size: up to 8 m (25’)

Plastic housing—P319
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### SPECIFICATIONS

<table>
<thead>
<tr>
<th><strong>Number of Elements and Configuration</strong></th>
<th><strong>Beamwidth (⁻³ dB)</strong></th>
<th><strong>RMS Power (W)</strong></th>
<th><strong>TWR</strong></th>
<th><strong>RVR</strong></th>
<th><strong>FOM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>50/200 kHz-A</td>
<td>45° 12°</td>
<td>600 W 600 W</td>
<td>154 dB</td>
<td>-179 dB</td>
<td>-33 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>164 dB</td>
<td>-185 dB</td>
<td>-21 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Q</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>28</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Impedance</td>
<td>200 Ω</td>
<td>375 Ω</td>
</tr>
</tbody>
</table>

### MAXIMUM DEPTH RANGE

<table>
<thead>
<tr>
<th><strong>50 kHz</strong></th>
<th><strong>200 kHz</strong></th>
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</thead>
<tbody>
<tr>
<td>235 m to 353 m</td>
<td>118 m to 206 m</td>
</tr>
<tr>
<td>[800’ to 1,200’]</td>
<td>[400’ to 700’]</td>
</tr>
</tbody>
</table>

### BEAM DIAMETER VS DEPTH

<table>
<thead>
<tr>
<th><strong>Depth</strong></th>
<th><strong>50 kHz</strong></th>
<th><strong>200 kHz</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9 m (30’)</td>
<td>8 m (25’)</td>
<td>2 m (6’)</td>
</tr>
<tr>
<td>30 m (100’)</td>
<td>25 m (83’)</td>
<td>6 m (21’)</td>
</tr>
<tr>
<td>122 m (400’)</td>
<td>101 m (331’)</td>
<td>26 m (84’)</td>
</tr>
<tr>
<td>305 m (1,000’)</td>
<td>252 m (828’)</td>
<td>64 m (210’)</td>
</tr>
</tbody>
</table>

### DIMENSIONS

**P319 Plastic**

- ø75 mm (2.94”)
- ø51 mm (2.00”)
- ø74 mm (2.93”)
- ø80 mm (3.13”)

**B117 Bronze**

- ø75 mm (2.94”)
- ø50 mm (1.96”)
- ø78 mm (3.08”)

**Hole Saw Dimension to Cut:**
- 51 mm (2.00”) hole size in fiberglass and wood hulls
- 57 mm (2.25”) hole size in metal hull using isolation ring

**Marine sealant on flange and side wall of housing and isolation ring where it contacts the hull**

**Weight:**
- Plastic—0.6 kg (1.3 lb)
- Bronze—0.9 kg (2.0 lb)

**Hull Deadrise:**
Best performance on hull deadrise angle through 7°. Can accommodate up to a 12° deadrise angle.

**Acoustic Window:** Urethane

**Hole Diameter:** 51 mm (2”)