**D800 DT800**

**The Smart Alternative!**
Airmar’s D800 and DT800 Smart™ Sensors feature embedded micro-electronics. Depth and temperature signals are processed inside the sensor and can be displayed on any radar, chart plotter, or device that accepts NMEA 0183 or NMEA 2000® data. The 235 kHz frequency prevents mutual interference with other echosounders on the vessel.

**Angle for Results**
The DT800 Tilted Element Transducer’s low-profile housing compensates for hull deadrise. The unique design tilts the ceramic element inside the transducer housing—giving all the advantages of a fairing block without a hull protrusion. Designed with Airmar’s exclusive Broadband Ceramic Technology, the 235 kHz element improves resolution without sacrificing sensitivity. The higher power rating 100 W RMS provides spot-on depth readings in as little as 0.5 m (1.6’) of water and can reach depths up to 180 m (600’).

**Features**
- Tilted-Element Broadband-Ceramic versions available in a 0° or 12° or 20° tilt
- Available in NMEA 0183 and NMEA 2000® versions
- 235 kHz frequency prevents mutual interference with other echosounders on the vessel
- Temperature sensor in DT800 models
- Cable lengths up to 100 m (330’) are possible with no loss of performance—NMEA 0183 only
- Plastic, bronze, or stainless steel housings available
- Retractable housing with water valve
- Available in low-profile, countersunk, or beveled-edge housings

**Tilted Element™ Thru-Hull Smart™ Sensors**
As Airmar constantly improves its products, all specifications are subject to change without notice. All Airmar products are designed to provide high levels of accuracy and reliability, however they should only be used as aids to navigation and not as a replacement for traditional navigation aids and techniques. Smart™ and Tilted Element™ are trademarks of Airmar Technology Corporation. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not affiliated with Airmar.

**235 kHz Non-Broadband / Broadband**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Non-Broadband</th>
<th>Broadband</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Elements and Configuration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beamwidth (-3 dB)</td>
<td>12°</td>
<td></td>
</tr>
<tr>
<td>RMS Power (W)</td>
<td>60 W</td>
<td>100 W</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

- **Weight:**
  - 0.9 kg (2 lb)—Plastic
  - 1.5 kg (3.4 lb)—Bronze
  - 1.6 kg (3.6 lb)—Stainless Steel
- **Acoustic Window:** Urethane
- **Data Update Rate:** 1 per second
- **Minimum Depth Range:** 0.5 m (1.6')
- **Maximum Depth Range:**
  - Up to 100 m (330')—Non-Broadband
  - Up to 180 m (590')—Broadband
- **Pressure Rating:** 3 m (10')
- **Supply Voltage:**
  - 10 VDC to 25 VDC—NMEA 0183
  - 9 VDC to 16 VDC—NMEA 2000
- **Supply Current:**
  - <40 mA—NMEA 0183
  - <200 mA—NMEA 2000
- **Standard Cable Length:**
  - 10 m (33')—NMEA 0183
  - 6 m (20')—NMEA 2000
- **Temperature Accuracy:** ±0.5°C (±1.8°F)
- **Temperature Sensor Range:** -10°C to 40°C (14°F to 104°F)
- **NMEA 2000® Load Equivalency Number (LEN):** 4
- **CE Regulation:** Complies to IERC60945

**DATA OUTPUT PROTOCOL**

- **NMEA 0183 Sentence Structure**
  - $SDDBT, DDPT... Depth
  - $YXMTW........... Water Temperature
- **NMEA 2000® Supported PGNs**
  - 59392............ ISO Acknowledgement
  - 600928........... ISO Address Claim
  - 126208.......... Acknowledge Group Function
  - 126464......... Transmit PGN List Group Function
  - 126464......... Received PGN List Group Function
  - 126996......... Product Information
  - 128267.......... Water Depth (With Transducer Offset)
  - 130310......... Environmental Parameters (Water Temperature)
  - 130311......... Environmental Parameters (Water Temperature)
  - 130312......... Environmental Parameters (Water Temperature)

**DIMENSIONS**

P617V Plastic, B617V Bronze, and SS617V Stainless Steel

- ø 75 mm (2.94’’)
- ø 125 mm (4.92’’)
- 2-12” threads
- 5 mm (0.20’’)

- Also compatible with B17 and SS577 housings