P39
P79

The Smart Alternative!

Airmar's P39 and P79 Smart™ Sensors feature embedded micro-electronics. Depth, speed, 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.

P39—
Smart Depth, Speed, and Temperature

The P39 transom-mount incorporates innovative features such as a recessed waterflow channel for improved paddlewheel accuracy. Few parts make the installation simple, and its compact size is favorable to owners of smaller outboard and inboard/outboard boats.

P79—
Simple! Convenient!! Adjustable!!!

The P79 is easy-to-install, accommodating hull deadrise angles up to 22°.

1. Mount the base flange inside the hull
2. Adjust the locking ring for the correct hull deadrise angle
3. Fill the base with non-toxic anti-freeze (propylene glycol)
4. Turn and lock the transducer into the base

AIRMAR® TECHNOLOGY CORPORATION
Sensing Technology

P39—Transom-Mount TRIDUCER® Multisensor
P79—In-Hull Adjustable
Smart™ Sensors

Features

- 235 kHz frequency prevents mutual interference with other echosounders on the vessel
- 6 m (20') NMEA 2000 cable
- Devicenet connector

P39—Transom-Mount

- Plastic kick-up bracket
- Accommodates transom angles between 2° and 22°
- Recessed waterflow channel protects paddlewheel

P79—In-Hull

- No holes to drill
- Installation can be done while the boat is in the water
- Recommended for solid fiberglass hulls
- Epoxies to aluminum hulls under 0.38 mm (0.150") thick
- Easily adapts to deadrise angles up to 22°

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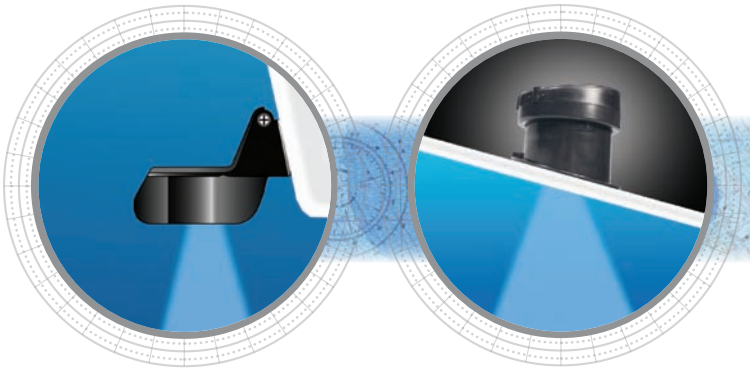


P39, P79

Technical Information

P39—235 kHz-A NMEA 0183 / NMEA 2000®		
Number of Elements and Configuration	◯	
Beamwidth (@-3 dB)	11°	
RMS Power (W)	60 W	100 W

P79—235 kHz-A NMEA 0183 / NMEA 2000®		
Number of Elements and Configuration	◯	
Beamwidth (@-3 dB)	7°	
RMS Power (W)	60 W	100 W

SPECIFICATIONS

Weight:
—0.5 kg (1.1 lb)—P39
—0.9 kg (2 lb)—P79
Acoustic Window: Layered plastic urethane
Transom Angle: 0° to 22°—P39 only
Hull Deadrise: 0° to 22°—P79 only
Data Update Rate: 1 per second
Minimum Depth Range: 0.5 m (1.6')
Maximum Depth Range:
—Up to 100 m (330')—NMEA 0183
—Up to 150 m (500')—NMEA 2000
Pressure Rating: 3 m (10')
Pulse Rate: 20,000 p/nm* (5.6 Hz per knot)—*p/nm = pulses per nautical mile
Supply Voltage:
—10 VDC to 28 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') devicenet—NMEA 2000
Temperature Sensor Accuracy: ±0.5°C (±1.8°F)—P39 only
Temperature Sensor Range: -10°C to 40°C (14°F to 104°F)—P39 only
NMEA 2000® Load Equivalency Number (LEN): 4
CE Regulation: Complies to IERC60945

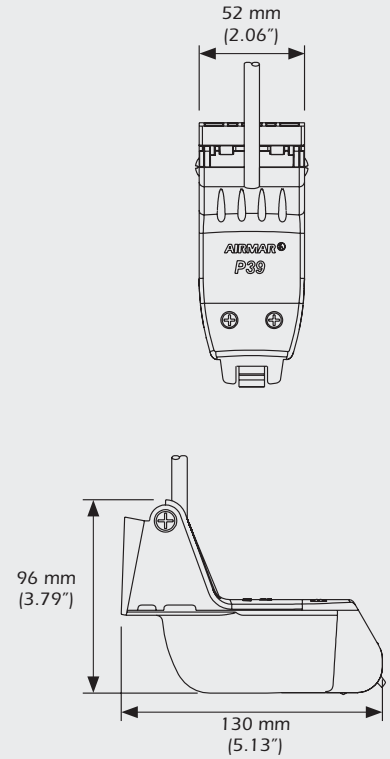
DATA OUTPUT PROTOCOL

NMEA 0183 Sentence Structure
$SDDBT, DDPT.....Depth
$VWVHW.....Speed—P39 Only
$VWVLW.....Distance—P39 Only
$YXMTW.....Water Temperature—P39 Only

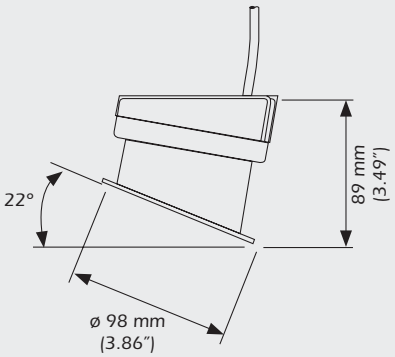
NMEA 2000® Supported PGNs
59392.....ISO Acknowledgement
060928.....ISO Address Claim
126208.....Acknowledge Group Function
126464.....Transmit PGN List Group Function
126464.....Received PGN List Group Function
126996.....Product Information
128259.....Speed (Speed Water Reference)—P39 Only
128267.....Water Depth (With Transducer Offset)
128275.....Distance Log—P39 Only
130310.....Environmental Parameters (Water Temperature)—P39 Only
130311.....Environmental Parameters (Water Temperature)—P39 Only
130312.....Environmental Parameters (Water Temperature)—P39 Only

DIMENSIONS

P39 Transducer



P79 Transducer



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Sensing Technology

ISO CERTIFIED CE