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### Garmin 101139400

# Garmin AIRMAR P79 in-Hull Transducer User Manual

Model: 101139400

## Introduction

The Garmin AIRMAR P79 in-Hull Transducer is a plastic, in-hull depth transducer designed for marine applications. It features an adjustable deadrise angle, simplifying installation. This NMEA 2000 compatible transducer operates at 235 kHz, providing depth readings up to 500 feet. It is engineered for reliable performance in various water conditions.

## What's in the Box

- Garmin AIRMAR P79 in-Hull Transducer
- Installation Instructions

## Setup and Installation

The P79 transducer is designed for in-hull mounting, which means it transmits and receives signals through the boat's hull, eliminating the need for drilling through the hull. This method is ideal for fiberglass hulls.




Figure 1: The Garmin AIRMAR P79 in-Hull Transducer. This image shows the black, cylindrical transducer unit with its adjustable top cap, designed for internal hull mounting.

### Important Installation Notes:

- **Hull Compatibility:** This transducer is not recommended for cored hulls. It is designed for solid fiberglass hulls.
- **Fiberglass Thickness:** The maximum fiberglass thickness for optimal performance should be no more than 5/8 inches (16 mm).
- **Deadrise Adjustment:** The adjustable deadrise angle feature allows for compensation of hull angles from 0 to 22 degrees, ensuring the transducer beam is directed straight down.
- **Following Instructions:** Always follow the detailed installation instructions provided with the transducer kit carefully to prevent damage to your boat or the transducer.
- **Coupling Fluid:** The transducer requires a liquid coupling medium (e.g., polyglycol solution or mineral oil) between the transducer face and the hull to transmit signals effectively.

For detailed step-by-step installation, refer to the dedicated installation instructions included in the product packaging.

## Operating the Transducer

Once properly installed and connected to a compatible NMEA 2000 display or fishfinder, the Garmin AIRMAR P79 transducer will automatically begin transmitting depth data. Ensure your display unit is configured to receive data from the NMEA 2000 network.

- **Depth Readings:** The transducer provides accurate depth readings up to 500 feet (152 meters).
- **Frequency:** Operates at a frequency of 235 kHz.
- **Beamwidth:** Features a 6-degree beamwidth, providing a focused signal for depth detection.
- **NMEA 2000 Connectivity:** Integrates seamlessly into existing NMEA 2000 marine networks for data sharing with other compatible devices.

Refer to your display unit's user manual for specific instructions on viewing and interpreting transducer data.

## Maintenance

The Garmin AIRMAR P79 in-Hull Transducer requires minimal maintenance due to its internal mounting. However,

periodic checks are recommended:

- **Inspect the Installation Site:** Periodically check the area around the transducer inside the hull for any signs of leaks or degradation of the coupling fluid.
- **Clean the Hull (External):** Although the transducer is in-hull, keeping the external hull clean in the transducer's vicinity can help ensure optimal signal transmission.
- **Cable Inspection:** Ensure all cable connections are secure and free from corrosion or damage.

## Troubleshooting

If you experience issues with your Garmin AIRMAR P79 transducer, consider the following common troubleshooting steps:

- **No Depth Reading:**
  - Verify the transducer is correctly connected to the NMEA 2000 network and your display unit.
  - Check the power supply to your NMEA 2000 network and display unit.
  - Ensure there is adequate coupling fluid between the transducer and the hull. Air bubbles can impede signal transmission.
  - Confirm your display unit is configured to read depth from the NMEA 2000 source.
- **Inaccurate Readings:**
  - Re-check the deadrise angle adjustment to ensure the transducer is pointing straight down.
  - Inspect the coupling fluid for air bubbles or contamination.
  - Ensure there are no obstructions or significant hull irregularities in the transducer's path.
- **Intermittent Readings:**
  - Check all cable connections for looseness or corrosion.
  - Ensure the NMEA 2000 network is properly terminated and powered.

If problems persist, consult the detailed troubleshooting section of your display unit's manual or contact Garmin customer support.

## Specifications

| | |
|---|---|
| **Brand** | Garmin |
| **Model Name** | Garmin AIRMAR P79 in-Hull |
| **Model Number** | 101139400 |
| **Mounting Type** | In-Hull |
| **Operating Frequency** | 235 kHz |
| **Depth Capability** | Up to 500 ft (152 m) |
| **Beamwidth** | 6 degrees |
| **Deadrise Angle** | 0 to 22 degrees (adjustable) |
| **Connectivity** | NMEA 2000 |

| | |
|---|---|
| **Product Dimensions** | 10.08"L x 7.95"W x 4.17"H |
| **Item Weight** | 2.2 pounds (1 Kilogram) |
| **Color** | Black |

## Warranty and Support

For information regarding the product warranty, please refer to the warranty card or documentation included with your Garmin AIRMAR P79 in-Hull Transducer. Warranty terms and conditions are subject to change and may vary by region. For technical support, product registration, or to find authorized service centers, please visit the official Garmin website or contact Garmin customer service directly. Keep your purchase receipt and product serial number handy when seeking support.

**Garmin Official Website:** www.garmin.com

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