



Typical Applications

- Underwater navigations
- Bathymetric surveys
- Pipeline inspections
- Marine salvage
- Underwater target identifications
- Search and recovery
- Ocean science, discovery and academic research

Benefits

- **Long lifetime:** Almost unlimited
- **Wireless transmission:** No wiring is required for data collection

- **Lightweight**

- Wireless transceiver: 120 g (4.2 oz.)
- Sonar transducer: 1.3kg (3 lb.)
- Solar panel: 120 g (4.2 oz.)

- **Easy mounting:** Flange mount or adhesive tape

- **Ingress Protection:** IP67, weatherproof and protected against rain, snow, and UV exposure

- **Maintenance-free:** No battery replacement, calibration or post-installation maintenance is required

Specifications

- **Storage temperature range:** -30°C to +70°C (-40°F to +150°F)
- **Operating temperature range:** -5 to 60°C (23 to 140°F)

- **Wireless communication range:** 1.0km (0.62mi) free space
- **Cable**
 - Length: 7.6m (25ft)
 - Type: C304, four shielded twisted pair
 - Reverse polarity protection
- **Water Temperature**
 - Accuracy: $\pm 0.05^{\circ}\text{C}$
 - Resolution: 0.09°C
- **Depth**
 - Minimum reading: 0.4 m (15")
 - Maximum reading: 200 m (656ft)
 - Display resolution: 10 mm (4")

Description

SenSpot™ wireless sonar depth meter provides an easy way to install a scalable solution for collecting underwater data such as depth and water temperature.

It comes with a high-capacity lithium-ion battery and a solar panel with its mount, requiring no battery

replacement and once installed. The whole product has IP67 protection (completely weatherproof) thus, it is an excellent choice for marine applications that require the sensors to be installed in outdoor and often hard-to-access locations.

It uses an AIRMAR EchoRange™ 200KHz sensor which is among one of the highest performance sensors in the field of marine applications for measuring underwater depth and temperature.

This product uses Resensys's proprietary Active RF Technology, which offers a high-performance method for large-scale sensing, wireless synchronization, and ultra-energy efficient wireless communication.

It can simultaneously serve as a SenSpot™ repeater to extend the wireless communication range between SenSpot™ and SeniMax™.

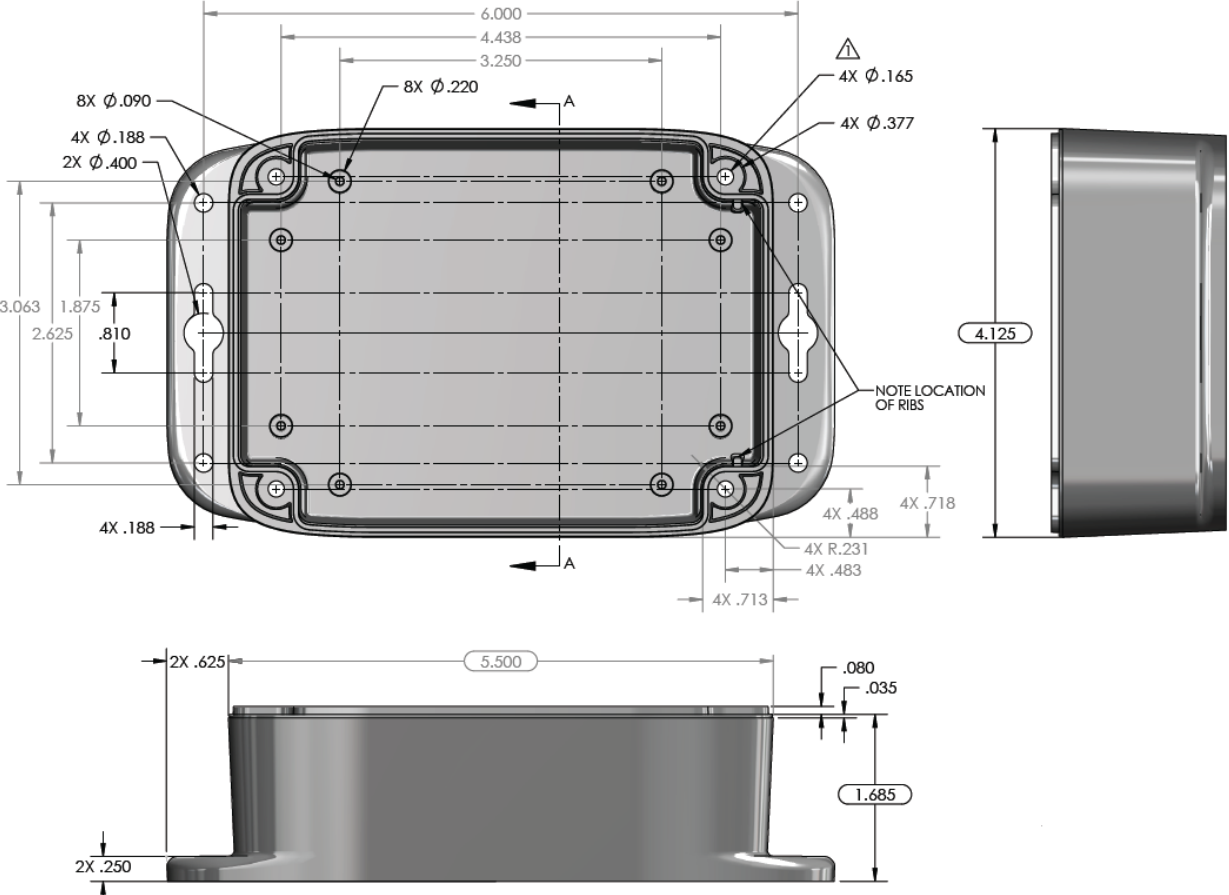
For more detailed information about the sonar sensor, please refer to AIRMAR website at:

<https://assets-7484b3de52.cdn.insite-cloud.net/9efb22b18f5b848/EchoRange-datasheet.pdf>

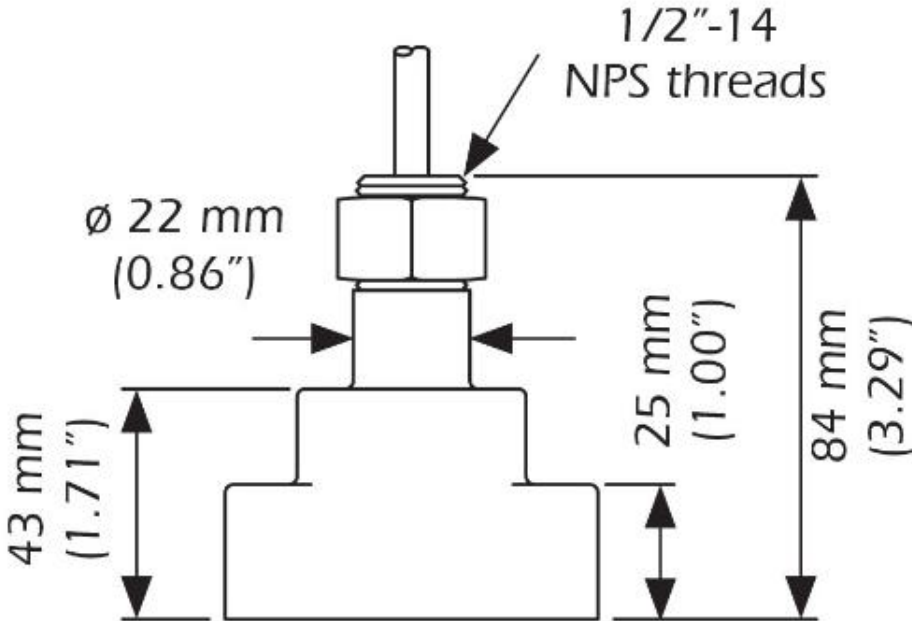
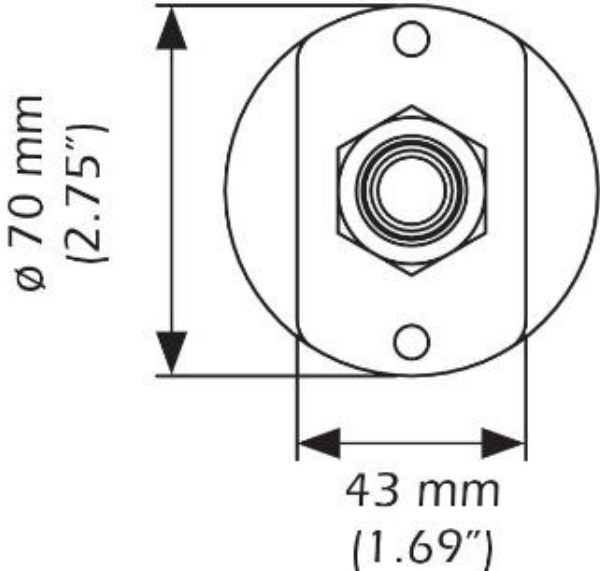
Installation

Wireless transceiver box comes with mounting flanges. It can be installed either with screws and anchors through the flange holes or with VHB adhesive tape (for steel and smooth surfaces).

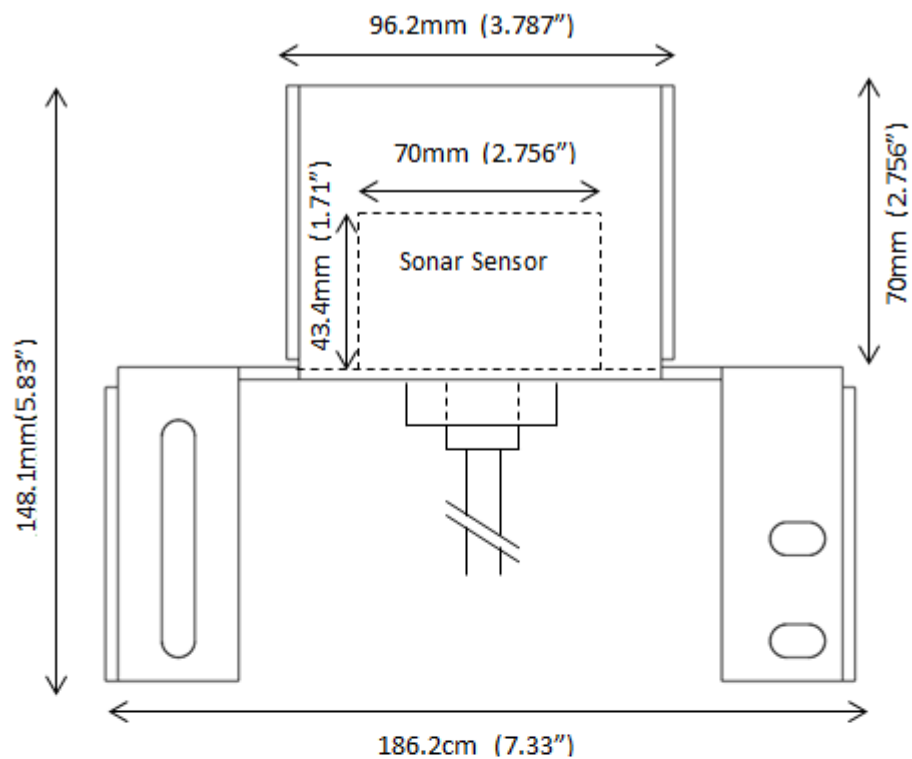
Wireless Transceiver Dimension (in inch)



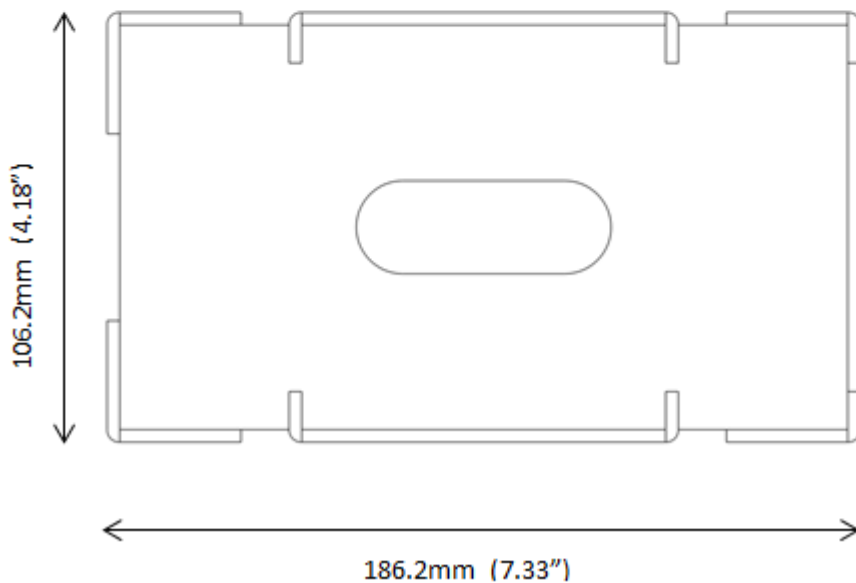
Transducer Dimension in mm (Inch)



Sonar Mount Dimension in mm (Inch)



Sonar Mount Lateral View



Sonar Mount Top View