



Typical Applications

- Water level monitoring
- Distance measuring
- Hydrometeorology
- Extend wireless communication range by relaying data between SenSpot™ and SeniMax™ when the RF link is weak (as repeater)

Benefits

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

- Wireless transceiver: 450 g (1 lb)
- Ultrasonic distance meter: 0.8kg (1.8lb)
- Solar panel: 100 g (3.5oz)

- **Easy mounting** :Flange mount or adhesive tape
- **Ingress Protection:** IP65, weatherproof and protected against rain, snow, and UV exposure
- **Maintenance free** : No battery replacement, calibration or post-installation maintenance is required

Specifications

- **Working temperature:** -40°C to +65°C (-40°F to +150°F)
- **Wireless communication range:** 1.0km (0.62mi) free space

- **Customizable cable length:** 0.3m (1ft) to 4m (12ft)
- **Optimal Range: 6.1m (20ft.)**
- **Max Range: 9.1m (30ft.)**
- **Resolution:**
 - 3cm (0.1ft)
- **Dead band: Typ. <25.4cm (10 in.)**
- **Ultrasonic Probe Dimension:**
 - Height 11cm (4.33")
 - Radius : 2.5cm (1")
 - Mounting: 15cm (5.90") * 10cm (3.94") corner brace

Description

SenSpot™ wireless ultrasonic level/height meter provides an easy way to install a scalable solution for measuring distance (e.g. water level or height, object detection and dimensions). It comes with high capacity lithium-ion battery and solar panel and its mount. As a result, it does not require

battery replacement and once installed, it is almost maintenance free. The whole product has IP65 protection (completely weatherproof) thus, it is an excellent choice for meteorological instrumentation applications that require the sensors to be installed some outdoor and often hard to access places.

It uses an ultrasonic distance meter (ToughSonic® 30 Level & Distance Sensor from Senix Distance Measurement).

This product uses Resensys's proprietary Active RF Technology, just the same as other products of Resensys. Resensys ART technology offers a high performance method for large-scale sensing, wireless synchronization and ultra-energy efficient wireless communication.

It can also serve as SenSpot™ repeater at the same time to extend the wireless communication range between SenSpot™ and SeniMax™.

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

