

Typical Applications

- Indoor and outdoor distributed monitoring (aircraft, buildings, bridges, machinery, etc.)

Benefits

- **Long lifetime** (minimum expected life without battery replacement 10 years)
- Wireless communication (IEEE 802.15.4)
- **Lightweight**, about 135 gr
 - Wireless Transmitter about 120 gr.
 - 1ft cable 10 gr.
 - Humidity/Temperature sensor 5 gr.
- **Self-adhesive**, no drilling is required
- **Easy mounting and quick installation**, 1-2 minutes
- **Adjustable sampling interval**
- **Resolution:** 1 percent (humidity) , 0.5 °C (Temperature)
- **Working temperature:** -40 to +150°F (-40 to +65°C)
- **Working humidity:** 0 to +100%
- **Long communication range:** 1.0km free space
- **Small size:**
 - Wireless transmitter: 1.96" x 1.96" x 1.34"
 - Humidity/Temperature sensor: 4.30"x1.30"x0.25 "
- **Power source:** replaceable prime lithium-ion battery
- **Probe length:** standard 1, 3, and 5 ft (customizable up to 200 ft)

Description

SenSpot™ provides an easy to install, scalable solution for distributed structural integrity monitor-



SenSpot™ Humidity/Temperature

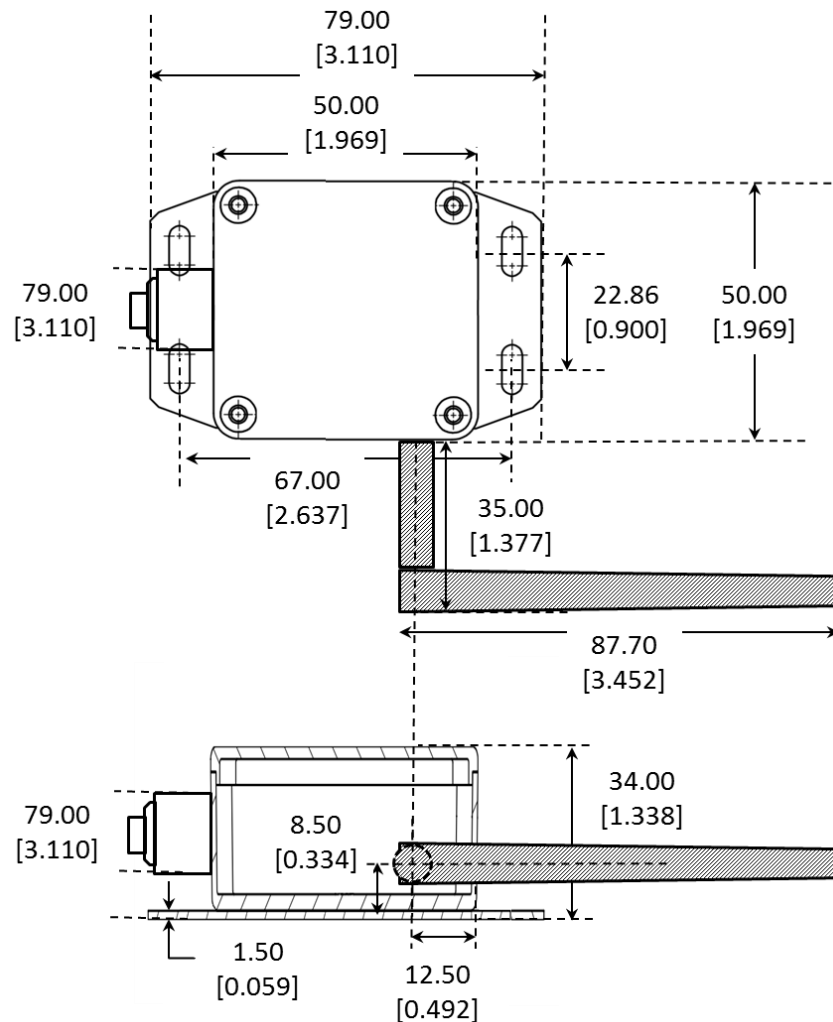
ing. SenSpot™ Humidity/Temperature uses Resensys's proprietary Active RF Technology, similar to other SenSpot™ in its family. Resensys ART technology offers a high performance method for large-scale sensing, wireless synchronization, and ultra-energy efficient wireless communication.

SenSpot™ is designed to operate maintenance-free for decades. SenSpot can operate for at least 10 years without battery replacement. Due to small size and lightweight design, the adhesive-mount SenSpot™ can be applied easily to as many critical spots on a structure as needed, with minimal installation effort.

SenSpot™ Humidity/Temperature has a measurement probe which can easily extend the data point to even inside and inaccessible area of a structure. The probes can be customized to be up to 200 feet long.

SenSpot - Wireless Transmitter

This part of the SenSpots is universal and it reads the analog measurement from the sensor and transmits the digitized data wirelessly to SeniMax. Wireless transmitter can be both self-adhesive or flange-mount.



All dimensions are in mm (inch)

Data from a deployed SenSpot™ sensor

