

SensTAG™ Long-Range Active Sensors

Half-Mile Range 10+ Year Battery Life Multi-Sensor Extreme Environments

+ KEY FEATURES

- **Long-Distance Transmissions** - over half a mile.
- **Practically Battery-Free™** - with a 3 to 20 year battery life.
- **Efficient and Fast to Install** - no wires or conduit.
- **No Maintenance** - mount and forget about it for 10 years.
- **Multi-Sensor**—Temperature, pressure, humidity, and more.
- **High and Low Temperature Ranges** with tethered sensors.
- **Reliable Transmissions** - multi-channel frequency hopping.
- **Customized** packaging and electronics—our specialty.*
- **Remote Connectivity** - using Iridium satellite modem, DNP, USB, serial port, WiFi, or Ethernet.
- **Tethered Sensors** with IP66 connectors. Easy to install.
- **Time-Based or Limit-Based** transmissions.
- **Data Logging** and high-speed sampling.



Satellite, DNP, Ethernet, and other receiver options for remote locations.

You Know Your Industry

We Know Wireless Sensing



3-Temperature, 1-Pressure Tethered Sensor Module.



Long-range SensTAGs are ideal for monitoring critical equipment where no maintenance and efficient installation are important.

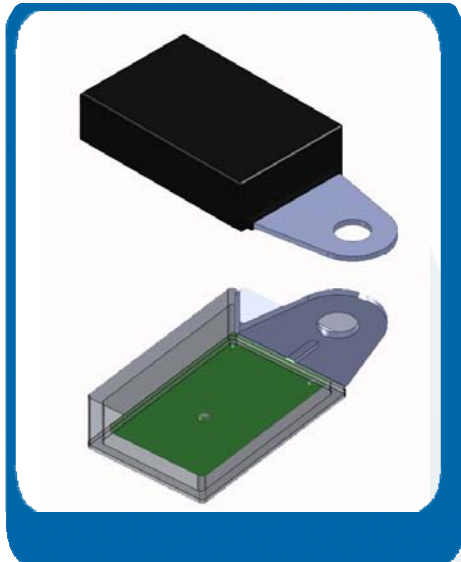
*We specialize in providing innovative sensing systems for hard-to-solve sensing problems. In addition, we offer a range of semi-custom products and complete turnkey manufacturing of custom sensing solutions for volume commitments.

long-range | long-life battery | rugged | customized





Phase IV Active **SensTAGs** are being used to research and prevent Bee Colony Collapse Disorder.



We specialize in prototyping custom packaging for industry-specific applications of our active sensors.

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SensTAG™ Long-Range Active Sensor Specifications

Physical

Size	Minimum 3.75 x 2.5 x 1.0 inches.* Standard size: 6.3 x 2.95 x 2.2 inches (pictured on front)
Environmental Rating	IP66, typical*
Standard Sensor Enclosure	Fiberglass enclosure.*

RF Specifications

Operating frequency	915 MHz & 2.4 GHz. Multi-channel frequency hopping.
Transmission Distance	200 to 2700 feet - application specific.

Identification (ID)

Unique Sensor identification transmitted with reading.

Sensor Performance*

Operating Temperature	-30 °C to +70°C (-20 °F to +160 °F).*
Temperature Measurement Range	Wider than -40C to 1000C with tethered sensors.
Temperature Accuracy	±0.5 °C typical - application specific.*
Temperature Sensor Types	Type K thermocouple or digital sensor, standard*.
Sensor Types Available	Temperature, pressure, vibration, strain, humidity...
Multi-sensor	2 to 4 sensors, typical. Up to 14 per transmitter.
Data Logging	Sensor data logging configurable to application.

Electrical Specifications

Battery Life	3 to 20 years, depending on the application.
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Receiver Options

Receiver Size:	5.75 x 3.25 x 1.5 inches, typical.
Data Connectivity Options:	USB, Ethernet, WiFi, satellite modem, DNP, others.

* *Sensors are highly configurable—contact us with your specific requirements.*

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