Innova™ Wireless Sensing

**SensTAG™ UHF RFID Passive Metal-Mount Sensor Kit**
Phase IV UHF RFID EPC Passive Metal-Mount Sensors with ThingMagic® Vega Reader

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**UNIQUE BREAK-THROUGH FEATURES**

- **Kit Includes** - ThingMagic® Vega UHF EPC reader, Antenna, PC software, manual, and metal-mount temperature SensTAGs.
- **Long Read Range** - 0.4 to 2 meters, depending on configuration.
- **Industry Standard Reader** - ThingMagic® Vega Reader.
- **Temperature Sensors** cover full range of sensing needs.
- **Optional Sensors**: Pressure, humidity, strain, and others.
- **Miniature & Mobile**—read sensors as they pass by a reader.
- **Embedded** sensors—read through walls, boxes, wood...
- **Extreme Temperature Ranges** with tethered sensors.
- **Passive Tags** - **No Battery** -> no maintenance.
- **Customized** sensor tags — our specialty.*
- **Totally Sealed** - submersible, rugged.

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*SWe 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.

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**Experts in RFID Sensing that We Invented.**

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Metal Mounted SensTAGs were embedded in the rubber pads of tank tracks for temperature testing.

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**maintenance-free | miniature | mobile | rugged**
Contact Phase IV Engineering to explore how our innovative wireless sensing technology can work for your organization.

**SensTAG™** UHF RFID Specifications (Passive, BAP, Data Logger)

**Physical**
- **Reader Size**: 8.5 in L x 5.25 in W x 1.5 in H.
- **Sensor Size**: Typical 3 x 1 x 0.25 inches. Various sizes available.

**Reader & RF Specifications**
- **Operating frequency**: 915 MHz Band (USA) - UHF EPC.
- **Read/Write Range**: 0.5 meters, typical. 2+ meters with high-power reader & optimized tag.
- **Reader Power**: 100 - 240V, 10W power supply included.
- **Protocol**: EPCglobal Gen 2 (ISO 18000-6C) with AntiCollision, DRM, and advanced anti-jamming.
- **Reader Power**: Adjustable from 5 dBm to 30 dBm (1 W).
- **PC Connection**: USB or serial connection from reader to PC.

**Sensor Performance**
- **(Temperature Range)**: -40 °C to +125°C (-40 °F to +230 °F).*
  *Range may be extended with tethered sensors.
- **Temperature Accuracy**: ±1°C typical. Greater accuracy is available.
- **Calibration**: Calibration factors stored onboard.
- **ID**: Unique ID number with each RFID sensor.
- **Additional Sensor Options**: Two external sensor inputs also available.*

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