UNIQUE BREAK-THROUGH FEATURES

- **Long Read Range** - 2 feet to 5 feet, depending on configuration.
- **Passive Temperature Tags** - No Battery -> no maintenance.
- **Two Standard Tag Types Available:** High Temperature and Low Temperature
- **Metal Mount** - Bolt or use adhesive attachment directly to metal to be measured.
- **Rugged & Mobile** - read sensors as they pass by a reader.
- **Totally Sealed** - waterproof, rugged.

*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.*

Experts in RFID Sensing *that We Invented.*

[SensTAG™ UHF RFID Passive Temperature Sensor Kit
Product Description (41-100042-00 Rev. 1.0)]
**Innovative Wireless Sensing™**

Contact Phase IV Engineering to explore how our innovative wireless sensing technology can work for your organization.

Call 1-303 443-6611 X101 or x 114

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**SensTAG™ UHF RFID Specifications (Passive)**

**Physical**
- **Reader**
  - 7.5 in L x 7.0 in W x 1.3 in H.
- **Reader Antenna**
  - Typical = 7.5” x 7” x 1”. Size and gain chosen per order.
- **Cable (Antenna)**
  - Length Up to 30 feet. Chosen per order.
- **Sensor Size, High Temp**
  - Standard Bolt-On = 2.3” L x 1.0” W x 1.1” H.
- **Sensor Size, Low Temp**
  - Screw-On or Adhesive Mount = 2.0” L x 1.4” W x 0.6” H.
  - Sizes, form factors and mounting can be customized per customer requirements.

**Environmental:**
- **Reader:** IP 52: Indoor or Outdoor use, dust and drip tight
- **Tag:** Waterproof and dust tight

**Reader & RF Specifications**
- **Operating frequency**
  - 902-928 MHz Band (USA) (All countries are available.)
- **Read/Write Range**
  - 2 feet typical; 5+ feet with high gain antenna.
- **Reader Power**
  - 100 - 240V, 10W power supply included.
- **Protocol**
  - EPC Global Cl1, Gen 2 (ISO 18000-6C) with Anti-Collision.
  - (Up to 12 sensor tags can be in the field.)
- **Reader Radiated Power**
  - FCC certified. Adjustable up to 4 watt EIRP.
- **PC Connection**
  - USB or Ethernet connection to reader. WiFi available.
  - Connecting to PLCs or user networks may require added non-recurring engineering

**Sensor Performance**
- **Temperature Measurement Range**
  - **High Temp:** -20°F to +220°F (-29°C to +105°C)
  - **Low Temp:** -20°F to +180°F (-29°C to +82°C)
  - Range may be extended with tethered sensors.*
- **Temperature Accuracy**
  - ±2°F (+/-1°C) typical. Greater accuracy is available at additional cost. Gradient in actual application may create an error between surface temperature and measured temperature.
- **Calibration**
  - Tags are individually calibrated. Calibration factors stored onboard.
- **ID**
  - Unique ID number with each RFID sensor.
- **Additional Sensor Options**
  - Two external temperature sensors, strain, pressure, humidity and other versions can be custom developed.*

**Software**
- **Software Interface**
  - for passive SensTAG RFID Temperature Sensor.
  - Provided for Windows 7. Includes GUI for reader control, data display and database.

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*UHF SensTAGs are highly configurable. We specialize in custom RFID Sensors. Call us with your unique sensing challenges.*