Innovative Wireless Sensing ™

PHASE IV
ENGINEERING INC.

SensTAG™ UHF RFID Passive Sensor Kit

Phase IV UHF RFID EPC Passive Sensors with ThingMagic® Vega Reader

➕ UNIQUE BREAK-THROUGH FEATURES

- **Kit Includes** - ThingMagic® Vega UHF EPC reader, UHF Antenna, PC software, user manual, and 10 passive temperature tags.
- **Long Read Range** - 0.4 to 4 meters, depending on configuration.
- **Low Cost** - Battery-free tags priced at $10, in high volume.
- **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.
- **Easy to Install**—no wires to connect.

Experts in RFID Sensing
that We Invented.

*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.

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

Software Interface for passive *Sens*TAG RFID Temperature Sensor.

Questions?
Call 1-866-608-6168

*Sens*TAG™ 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	Standard size - credit card. 0.14 inches thick.

Reader & RF Specifications

Operating frequency	915 MHz Band (USA) - UHF EPC.
Read/Write Range	0.5 meters, typical. 4+ 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.*

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

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