

GENTAG

NFC TEMPERATURE SENSOR TAGS

Passive Version and Battery-Assisted Logger Versions

GT-301

Overview

- Available either as passive or battery-assisted logging sensors
- Wireless temperature sensing combined with unique ID
- Standard sensing range from -20 C up to +60 C
- Custom 0.1 C technology available for diagnostic applications
- Compatible with NFC cell phones
- Anti-collision supported (reads and writes multiple tags simultaneously)
- Use of NFC cell phones, PCs or Wi-Fi readers ensures worldwide usability and creation of mesh sensor networks
- Covered under US Patent 7,148,803 "Radio Frequency Identification (RFID) Based Sensor Networks" and several other US and international patents



Characteristics of the Passive Sensor Technology



Passive sensors have no battery and no internal power source which means that the sensors can be very small, thin, flexible or hardened. No battery also means that the sensors require no maintenance, are low cost and can work for the lifetime of the chip (typically 10 years) depending on the use conditions. Because the technology is battery-less the sensors can be embedded as permanent sensors (e.g. medical devices and appliances). For certain environments the lack of a battery is a distinct advantage.

The passive sensor reports the real time temperature, the unique ID number and sensor data each time it is interrogated either by a fixed or mobile reader such as an NFC cell phone. Passive temperature sensors typically are less accurate than battery-assisted sensors.

Characteristics of the Battery-Assisted Sensor Technology

The battery-assisted sensor self-activates without the need of an external reader. The sensor can be programmed by the user with an NFC cell phone to activate temperature measurements every x seconds, minutes or hours, and pre-define temperature limits or thresholds can be set. Thus the sensor provides a historical report of temperature exposures and exposure times for any tagged product.

Customized Sensor Tags

GENTAG can custom design and produce NFC sensors for a variety of special medical or industrial applications including implantable sensors or sensors for rugged environments.



For more information contact GENTAG at:

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