

GoSense PTH-Stat ID™ NFC Metrology Sensor

PRELIMINARY

FEATURES

- Pressure, Temperature & Humidity Sensor
- Ultra-Low Power
- Integral Data Logger
- Lightweight and Portable
- Battery or Batteryless Operation
- Wireless Data Transfer to Smartphone
- Password Protected
- Fully Programmable
- Up to 1Mb Secure Data Storage Space
- NFC and RFID Compatible
- 13.56 MHz (HF) Operating Frequency
- Various Packaging Options Available

TYPICAL APPLICATIONS

- Pressure, Temperature and Humidity Measurement
- Indoor Air Quality Monitoring
- Low-Cost Weather Station
- Portable Barometer
- Archives, Libraries and Document Storage
- Intelligent Packaging
- Cool Chain Logistics
- Short-Range Contactless Sensing
- Wireless Sensor Networks
- Supply Chain Logistics
- Environmental Monitoring

DESCRIPTION

The GoSense PTH-StatID™ is a wireless pressure, temperature and relative humidity sensor with a built-in data logger. The PTH-StatID™ can be read with RFID readers and NFC-v enabled smartphones.

The GoSense PTH-StatID™ is ideal for field-based, mobile, or indoor pressure, temperature and humidity measurement applications.

The GoSense PTH-StatID™ will operate with or without batteries (semi-active or passive operation) and has a read range of up to 2.5 cm with NFC-v Smartphones or up to 1.5 m with an ISO15693 RFID card reader.

Different enclosure options are available for indoor, outdoor, mobile or rugged use.



SPECIFICATION SUMMARY

Measurement accuracy:

- ± 1 kPa in range 0 to 100 kPa
- ± 1.0 °C in range 0 – 70 °C
- ± 2% RH in range 20 – 80 %RH
- ± 3% RH in range 0 – 100 %RH

Read range:

- NFC up to 2.5 cm
- RFID up to 1.5 m

Operating conditions:

- clean dry air and non-corrosive gases
- atmospheric to 100 kPa
- 30 to + 60 °C with battery
- 40 to + 85 °C without battery
- 0 – 100 %RH, non-condensing

Data logger (requires battery)

- 4 kb memory with optional 1Mb expansion
- programmable out-of-limits function
- 14-bit ADC

Air interface:

- ISO 15693 compliant
- NFC-v compatible

Power Supply:

- Derived from NFC/RFID reader or internal battery
- Battery: 3V lithium coin cell, type CR2032
- Size: e 100 x 70 x 15 mm (depending on enclosure)
- Weight: e 25 - 100 g (depending on enclosure)

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