

## PoE•X Low Temperature Sensor



### General Description

The [Power-over-Ethernet \(PoE\) Low Temperature Sensor](#) uses a glass coated platinum RTD transducer to accurately measure temperatures from -200°C to +162°C (-328°F to 325°F). The Low Temperature Sensor outputs the ambient temperature in degrees Celsius or Fahrenheit and alert the user when a temperature threshold has been crossed.

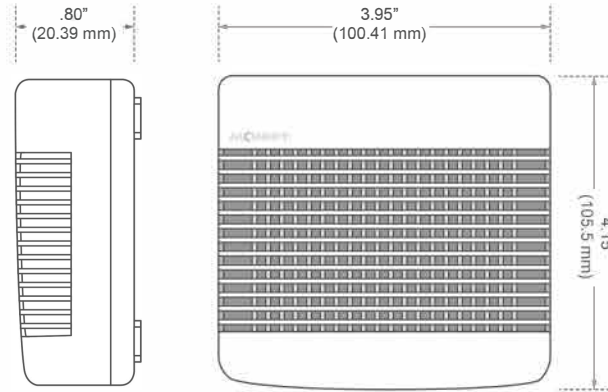
### Monnit PoE•X Sensor Features

- Power-over-Ethernet ready (injector hardware required)
- Embedded LEDs for transmission & online condition indicators
- 50,000 sensor message memory (non-volatile)
- Modbus TCP & SNTP v1 interface capabilities
- No PC required (managed through apps and smart devices)
- Remote update capable w/automatic updates
- [Optional 5V DC power supply available](#)

## Technical / Device Specifications

| DEVICE SPECIFICATIONS                      |                                                                                                                                                                          |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                                | MNS-P-C1-TS-LT-L03                                                                                                                                                       |
| Communication Hardware                     | 10 / 100 Ethernet Controller                                                                                                                                             |
| PoE Requirements                           | Class 1 Device (500mW)                                                                                                                                                   |
| IEEE Standard Compliance                   | 802.3AF-2003 / 802.3AT-2009 Class 1                                                                                                                                      |
| Operation                                  | Full- and Half-Duplex                                                                                                                                                    |
| Cross-Over Correction                      | Automatic MDI / MDI-X                                                                                                                                                    |
| Protocols Supported                        | DHCP, DNS, NTP, UDP, TCP, SNMP, Modbus TCP                                                                                                                               |
| Input Power                                | Supplementary Power Requirement                                                                                                                                          |
| Cable Connector                            | RJ45                                                                                                                                                                     |
| Supplementary Power Connector              | 2.1 x 5.5 mm barrel jack, center positive                                                                                                                                |
| Device Memory                              | Up to 50,000 sensor messages; varies based on sensor type. (Sensor messages will be stored in the event of Internet outage and transferred when connection is restored.) |
| Forced Communication / Reset Hardware      | Button                                                                                                                                                                   |
| Operating Temperature                      | -20 to +60°C (-4 to 140°F)                                                                                                                                               |
| Storage Temperature                        | -40 to +85°C (-40 to 185°F)                                                                                                                                              |
| SENSOR SPECIFICATIONS                      |                                                                                                                                                                          |
| Sensing Element                            | DIN 43760 Class B                                                                                                                                                        |
| RTD Temperature Range (RTD and Cable Only) | -200°C to +162°C ( -328°F to +325°F )                                                                                                                                    |
| RTD Temperature Accuracy @ 0°C             | +/- 3.3°C Standard (+/- 0.5°C Calibrated                                                                                                                                 |
| Response Time                              | 20 seconds max                                                                                                                                                           |
| Dissipation Constant                       | 2mW/°C                                                                                                                                                                   |
| Data Rate                                  | Auto configures to best rate for maximum range.                                                                                                                          |

|        |                                                                                                      |
|--------|------------------------------------------------------------------------------------------------------|
| Probe  | Stainless steel metal probe tip (5mm diameter, 30mm length)<br>(0.197 in. diameter, 1.18 in. length) |
| Weight | 4.68 oz. (133 g)                                                                                     |



## Example Applications

- Freezers and Coolers
- Smart Machines & Smart Structures
- HVAC Operation & Testing
- Environmental Monitoring
- [And many more](#)

## Notes

### Software Compatibility

Currently Monnit PoE•X Sensors are only supported in iMonnit Online.

For more information about our products or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at [www.monnit.com](http://www.monnit.com).