

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.

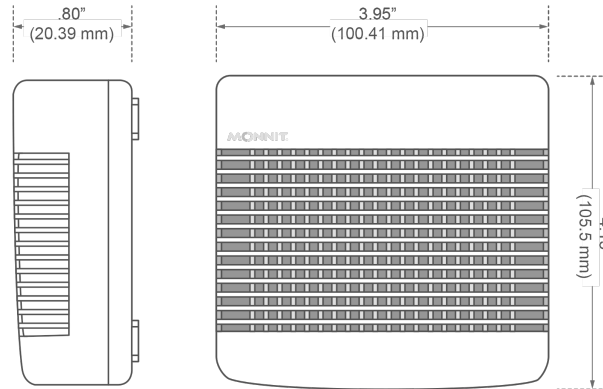
Monnit PoE-X Sensor Features

- 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) (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.



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Change Log

Revision	Author	Date (yyyy/mm/dd)	Change
1	K Detro	2020/06/20	Original release.
2	K Detro	2021/08/30	Removed entry about Enterprise compatibility.