

## PoE•X Temperature Sensor



### General Description

The [Power-over-Ethernet \(PoE\) Temperature Sensor](#) uses a precision thermistor to accurately measure temperatures from -25°C to +125°C ( -13°F to +257°F). The Temperature Sensor outputs the ambient temperature in degrees Celsius or Fahrenheit. This turnkey sensor may be up and running in as little as 15 minutes.

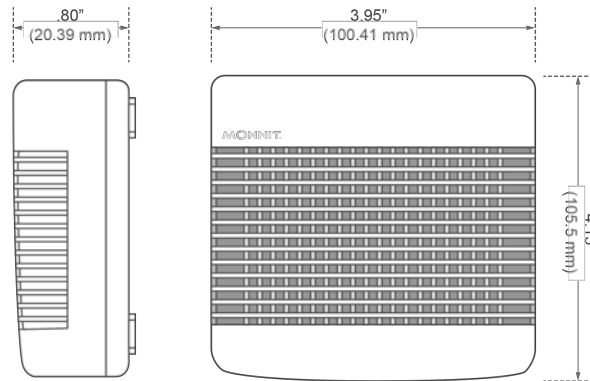
### Monnit PoE•X Sensor Features

- 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-ST-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	Supplemental 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	-20 to +85°C (-4 to 185°F)
SENSOR SPECIFICATIONS	
External Probe and Lead Operating Range	-25°C to +125°C ( -13°F to +257°F )
Accuracy @ 25°C	+/- 1° C (1.8° F)
User Calibrated Accuracy	+/- 0.25° C (± 0.45° F)

Response Time	20 sec max
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

- Ambient Temperature Monitoring
- Environmental Monitoring
- Smart Machines & Smart Structures
- Data Center Monitoring
- HVAC Operation & Testing
- [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).



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