MONNIT®

Remote Monitoring for Business

TEMPERATURE + PoE•X

PoE•X Temperature Sensor

General Description

The Power-over-Ethernet (PoE) Temperature Sensor uses a precision thermistor to accurately measure temperatures from -40°C to +125°C (-40°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.
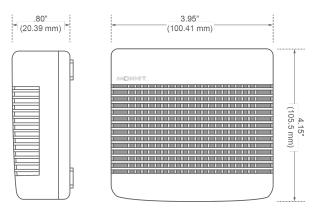
Monnit PoE•X Sensor Features

- 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	-40°C to +125°C (-40°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)

.80"
(20.39 mm)

3.95"
(100.41 mm)

4.15"
(105.5 mm)

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.

MONNIT

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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.