

PoE-X Duct Temperature Sensor



General Description

The [Power-over-Ethernet \(PoE\) Duct Temperature Sensor](#) uses an NTC thermistor with 8 ft. lead wires to accurately measure temperatures in duct work, while maintaining a sealed environment. Can be easily installed and mounted for long term use. It is programmed to sleep for a user-given time interval (heartbeat) and then wakeup, send power to the temperature probe, wait for temperature to stabilize, then transmit the temperature data to iMonnit.

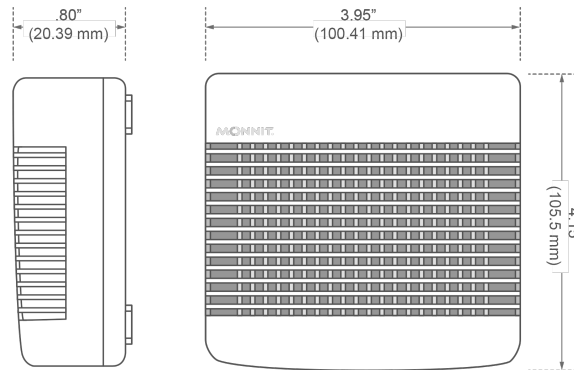
Monnit PoE-X Sensor Features

- 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-DT-L08
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	-15 to +85°C (5 to 185°F)
SENSOR SPECIFICATIONS	
Temperature Range	-75° C to +400° C (-103°F to +572°F)
Accuracy @25°C	+/- 1° C (±1.8°F)
User Calibrated Accuracy	+/- 0.25° C (±0.45°F @ 77°F)
Response Time	20 seconds max
Lead Wire Length	8 ft. (96 in.)

Probe	8 ft. lead with stainless steel bracketed metal probe
Weight	6.45 oz. (183 g)



Example Applications

- Air Duct Temperature Monitoring
- HVAC Operation & Testing
- Coolers & Freezers
- Smart Machines & Smart Structures
- Data Center Monitoring
- 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.