



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.

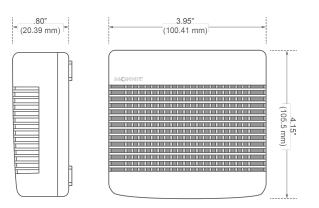
Monnit PoE•X Sensor Features

- 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 BC required (managed through appr, and sm
- No PC required (managed through apps and smart devices)
- Remote update capable w/automatic updates
- Works with iMonnit Cloud and Enterprise software applications
- Optional 5V DC power supply available - US Power Adapter
 - International Power Adapter

Technical / Device Specifications

DEVICE SPECIFICATIONS Part Number MNS-P-C1-TS-DT-L08 Communication Hardware 10 / 100 Ethernet Controller 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 SPECIFIONS Temperature Range -75° C to +400° C (-103°F to +572°F) */-1° C (±1.8°F) User Calibrated Accuracy +/- 1° C (±1.8°F) User Calibrated Accuracy +/- 1° C (±1.8°F) User Calibrated Accuracy +/- 0.25° C (±0.45°F @ 77°F) Lead Wire Length 8 ft. (96 in.)		
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Lead Wire Length 8 ft. (96 in.)	Response Time	20 seconds max
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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

Commercial Grade Sensors

Monnit commercial-grade sensors are designed for applications in ordinary environments (normal room temperature, humidity, and atmospheric pressure). Do not subject these sensors to the following, as these environmental aggressors could degrade the device and its performance, leading to failures and burn-out:

- · Corrosive or deoxidizing gas, e.g., chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, and nitric oxides
- · Volatile or flammable gas
- · Dusty conditions
- Extremely low or high pressures
- Wet or excessively humid locations
- · Places where saltwater, oils, chemical liquids, or organic solvents are routinely present
- · Applications/locations prone to excessive or strong vibration
- Other sites where similar hazardous conditions exist

Use these products within the Monnit-specified temperature range. Higher temperatures could deteriorate both the product and its functionality.

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 <u>www.monnit.com</u>.



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