



# **PoE•X** Thermocouple Sensor



## **General Description**

The <u>Power-over-Ethernet (PoE) Thermocouple Sensor</u> is available with a hardwired thermocouple or K-type connector to support various thermocouple types and ranges. The hardwired thermocouple option measures temperatures up to  $400^{\circ}C$  (752°F).

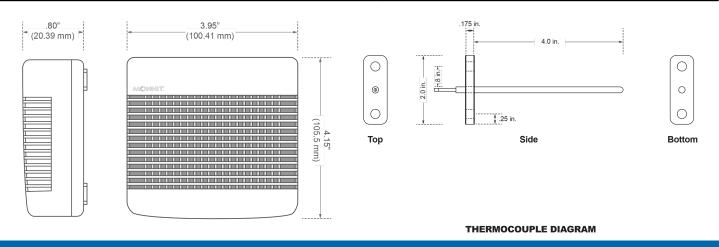
#### **Monnit PoE•X Sensor Features**

- 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-TC-HW	
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		
Thermocouple Probe	Type-K, 6 inches long with 1.6 inch by 0.6 inch flange between probe and connection cord	
Thermocouple Connection Cord	6 ft long coil with glass braid insulation and metal overbraid	
Hardwired Thermocouple Probe - Temperature Range	-100°C to +400°C (-148°F to +752°F)	

Hardwired Thermocouple Probe - Accuracy above 0°C	+/- 2.2°C or 0.75% (whichever is greater)
Hardwired Thermocouple Probe - Accuracy below 0°C	+/- 2.2°C or 2.0% (whichever is greater)
Hardwired Thrermocouple Response Time	60 Seconds in still water to reach 95% of actual temperature.
Weight	6.32 oz. (179 g)



### **Example Applications**

- Chimney / Flue Temperature Monitoring
- Kiln Temperature Monitoring

High Temperature Food 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 <u>www.monnit.com</u>.



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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.