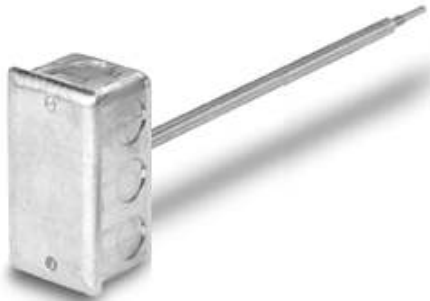


Duct Temperature Sensors



Rigid Probe



Rigid Probe – Bracket Mount



Flexible Probe

Description

Siemens Duct Temperature Sensors monitor and transmit changes in duct air temperature to the HVAC control system. They provide an accurate, reliable indication of duct air temperature. The sensor resistance varies proportionally to the actual temperature being measured.

Sensors are offered with a variety of probe lengths to fit almost any size duct. Longer probes are typically flexible for easier handling and installation (see *Product Ordering Information* on the following page for details).

Multiple output signals are available to ensure compatibility with most common HVAC control systems.

Features

- Variety of sensing elements.
- Suitable for multiple duct applications.
- Responsive to temperature change.
- Accurate and reliable indication of duct temperature.
- Familiar installation process does not require special tools.

Specifications

| | |
|-----------------|---|
| Output Signals | 100K Ω Thermistor 10K Ω Type 2 Thermistor 1K Ω @ 32°F Ni RTD 1K Ω Pt RTD (375a) 1K Ω Pt RTD (385a) 4 to 20 mA • -4°F to 122°F • 20°F to 120°F • 30°F to 250°F 10K Ω Matched Pair Thermistor • (For use with Siemens TEC only) |
| Probe Material | 0.028 Wall SAE J526 ZTEW or Galfan steel tubing |
| Housing* | Standard NEC approved 2 x 4 inch (5 x 10 cm) utility box with 1/2-inch (13 mm) knockouts |
| Screw Head Type | Standard slotted |

* Bracket-mounted units do not include housing.

Disposal



The devices are considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Dispose of the devices through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Product Ordering Information

| Output Signal | Type | Probe Length | Measuring Range | Accuracy | PN | | |
|---------------------------------|--------------------|-------------------------------|--|--|---------------------------|--|-------------|
| 100K Ω Thermistor | Point | 18 inches (rigid) | -40°F to 180°F (-40°C to 82°C) | $\pm 0.50^\circ\text{F}$ ($\pm 0.28^\circ\text{C}$) @ 77°F (25°C) | 535-741-18 | | |
| | | 4 inches (rigid) | | | 535-741-4 | | |
| | | 8 inches (rigid) | | | 535-741-8 | | |
| | | 4 inches (rigid), Bracket | | | 536-811 | | |
| | Averaging | 18 inches (rigid) | | $\pm 0.36^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$) @ 77°F (25°C) | 540-244-18 | | |
| | | 36 inches (flexible) | | | 540-245-36 | | |
| 10K Ω Type II Thermistor | Point | 4 inches (rigid) | | $\pm 0.4^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$) @ 77°F (25°C) | 540-246-72 | | |
| | | 8 inches (rigid) | | | QAM2030.010 | | |
| | | 18 inches (rigid) | | | QAM2030.020 | | |
| | Averaging | 8 feet (flexible) | | | QAM2030.045 | | |
| | | 16 feet (flexible) | | | QAM2030.250 | | |
| | | 24 feet (flexible) | | | QAM2030.500 | | |
| | | 4 inches (rigid) | QAM2030.750 | | | | |
| | | 8 inches (rigid) | QAM2020.010 | | | | |
| | | 18 inches (rigid) | QAM2020.020 | | | | |
| | | 18 inches (rigid) | QAM2020.045 | | | | |
| 1K Ω @ 32F Ni RTD | Point | 16 feet (flexible) | $\pm 0.72^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 32°F (0°C) | QAM2020.500 | | | |
| | | 24 feet (flexible) | | QAM2020.750 | | | |
| | Averaging | 18 inches (rigid) | | $\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C) | 544-339-18 | | |
| | | 4 inches (rigid) | | | 544-339-4 | | |
| 1K Ω Pt RTD (375a) | Point | 8 inches (rigid) | $\pm 0.54^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$) @ 32°F (0°C) | 544-339-8 | | | |
| | | 16 feet (flexible) | | 544-342-16 | | | |
| | | 24 feet (flexible) | | 544-342-24 | | | |
| | Averaging | 8 feet (flexible) | | 544-342-8 | | | |
| | | 18 inches (rigid) | | 544-343-18 | | | |
| | | 24 inches (rigid) | | 544-343-24 | | | |
| | | 36 inches (rigid) | | 544-343-36 | | | |
| | | 48 inches (rigid) | | 544-343-48 | | | |
| | | 4 inches (rigid) | | QAM2012.010 | | | |
| | | 8 inches (rigid) | | QAM2012.020 | | | |
| | | 18 inches (rigid) | | QAM2012.045 | | | |
| | | 1K Ω Pt RTD (385a) | | Point | 8 feet (flexible) | $\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C) | QAM2012.250 |
| 16 feet (flexible) | QAM2012.500 | | | | | | |
| Averaging | 24 feet (flexible) | | QAM2012.750 | | | | |
| | 18 inches (rigid) | | 544-560-18 | | | | |
| 4 to 20 mA | Point | 4 inches (rigid) | -4°F to 122°F (-20°C to 50°C) | 544-560-4 | | | |
| | | 8 inches (rigid) | | 544-560-8 | | | |
| | | 18 inches (rigid) | | 533-376-18 | | | |
| | | 4 inches (rigid) | | 533-376-4 | | | |
| | | 8 inches (rigid) | | 533-376-8 | | | |
| | | 16 feet (flexible) | | 533-380-16 | | | |
| | Averaging | 24 feet (flexible) | 20°F to 120°F (-7°C to 49°C) | 533-380-24 | | | |
| | | 8 feet (flexible) | | 533-380-8 | | | |
| | | 18 inches (rigid) | | 535-490-18 | | | |
| | | 24 inches (rigid) | | 535-490-24 | | | |
| | | 36 inches (rigid) | | 535-490-36 | | | |
| | | 48 inches (rigid) | | 535-490-48 | | | |
| | Point | 18 inches (rigid) | 30°F to 250°F (-1°C to 121°C) | 533-377-18 | | | |
| | | 4 inches (rigid) | | 533-377-4 | | | |
| | | 8 inches (rigid) | | 533-377-8 | | | |
| | | For Use with Siemens TEC Only | | Point | 4 inches (rigid) | $\pm 0.50^\circ\text{F}$ ($\pm 0.28^\circ\text{C}$) @ 77°F (25°C) | 538-871 |
| | | | | | 4 inches (rigid), Bracket | | 540-128 |
| | | | | | 18 inches (rigid) | | 540-739 |

Accessories

Flange and Gasket Kit for Variable Insertion Depth of Rigid Point Sensors

AQM2000

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