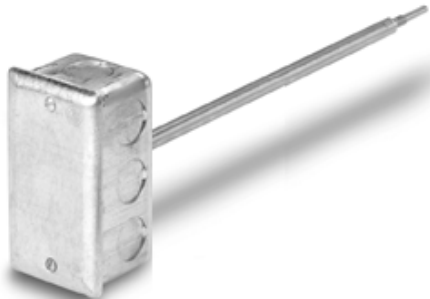


Duct Temperature Sensors



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 10K Ω Type 3 Thermistor 1K Ω @ 32°F Ni RTD 1K Ω @ 70°F Ni RTD 1K Ω Pt RTD (375a) 1K Ω Pt RTD (385a) 4 to 20mA <ul style="list-style-type: none"> • -4°F to 122°F • 20°F to 120°F • 30°F to 250°F
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.

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	18 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		
		8 inches (rigid)			QAM2030.750		
		4 inches (rigid)			QAM2032.010		
		8 inches (rigid)			QAM2032.020		
		18 inches (rigid)			QAM2032.045		
10K Ω Type III Thermistor	Point	8 feet (flexible)		QAM2032.250			
		16 feet (flexible)		QAM2032.500			
		24 feet (flexible)	QAM2032.750				
	Averaging	4 inches (rigid)	QAM2020.010				
		8 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	8 inches (rigid)	$\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C)	QAM2021.020			
		18 inches (rigid)	$\pm 0.72^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 32°F (0°C)	QAM2021.045			
1K Ω @ 70°F Ni RTD	Point	24 feet (flexible)	QAM2021.750				
	Averaging	18 inches (rigid)	544-339-18				
1K Ω Pt RTD (375a)	Point	4 inches (rigid)	$\pm 0.54^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$) @ 32°F (0°C)	544-339-4			
		8 inches (rigid)		544-339-8			
		18 inches (rigid)		544-342-16			
	Averaging	16 feet (flexible)		544-342-24			
		24 feet (flexible)		544-342-8			
		8 feet (flexible)		544-343-18			
		18 inches (rigid)		544-343-24			
		24 inches (rigid)		544-343-36			
		36 inches (rigid)		544-343-48			
		48 inches (rigid)		QAM2012.010			
1K Ω Pt RTD (385a)	Point	4 inches (rigid)	QAM2012.020				
		8 inches (rigid)	QAM2012.045				
		18 inches (rigid)	QAM2012.250				
	Averaging	8 feet (flexible)	$\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C)	QAM2012.500			
		16 feet (flexible)	QAM2012.750				
		24 feet (flexible)	544-560-18				
4 to 20 mA	Point	18 inches (rigid)	-4°F to 122°F (-20°C to 50°C)	544-560-4			
		4 inches (rigid)		544-560-8			
		8 inches (rigid)		533-376-18			
		18 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)	$\pm 0.54^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$) @ 32°F (0°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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