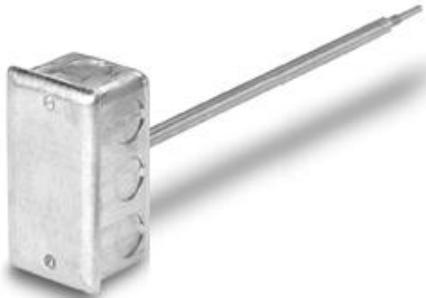


## Duct Temperature Sensors



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	<ul style="list-style-type: none"> <li>100K <math>\Omega</math> Thermistor</li> <li>10K <math>\Omega</math> Type 2 Thermistor</li> <li>10K <math>\Omega</math> Type 3 Thermistor</li> <li>1K <math>\Omega</math> @ 32°F Ni RTD</li> <li>1K <math>\Omega</math> @ 70°F Ni RTD</li> <li>1K <math>\Omega</math> Pt RTD (375a)</li> <li>1K <math>\Omega</math> Pt RTD (385a)</li> <li>4 to 20mA</li> <li>• -4°F to 122°F</li> <li>• 20°F to 120°F</li> <li>• 30°F to 250°F</li> <li>10K <math>\Omega</math> Matched Pair Thermistor</li> <li>• (For use with Siemens TEC only)</li> </ul>
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 $\Omega$ 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)			540-244-18	
		36 inches (flexible)			540-245-36	
10K $\Omega$ Type II Thermistor	Point	8 inches (rigid)		$\pm 0.4^\circ\text{F}$ ( $\pm 0.2^\circ\text{C}$ ) @ 77°F (25°C)	540-246-72	
		18 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	
10K $\Omega$ Type III Thermistor	Point	4 inches (rigid)			$\pm 0.72^\circ\text{F}$ ( $\pm 0.4^\circ\text{C}$ ) @ 32°F (0°C)	QAM2030.750
		8 inches (rigid)				QAM2032.010
		18 inches (rigid)				QAM2032.020
	Averaging	8 feet (flexible)				QAM2032.045
		16 feet (flexible)				QAM2032.250
		24 feet (flexible)				QAM2032.500
1K $\Omega$ @ 32F Ni RTD	Point	4 inches (rigid)	$\pm 0.75^\circ\text{F}$ ( $\pm 0.4^\circ\text{C}$ ) @ 75°F (24°C)	QAM2032.750		
		8 inches (rigid)		QAM2020.010		
	Averaging	16 feet (flexible)		QAM2020.020		
		24 feet (flexible)		QAM2020.045		
1K $\Omega$ @ 70°F Ni RTD	Point	8 inches (rigid)		$\pm 0.75^\circ\text{F}$ ( $\pm 0.4^\circ\text{C}$ ) @ 75°F (24°C)		QAM2020.500
		18 inches (rigid)				QAM2020.750
	Averaging	24 feet (flexible)			QAM2021.020	
					QAM2021.045	
1K $\Omega$ Pt RTD (375a)	Point	4 inches (rigid)			$\pm 0.72^\circ\text{F}$ ( $\pm 0.4^\circ\text{C}$ ) @ 32°F (0°C)	QAM2021.750
		8 inches (rigid)				544-339-18
		18 inches (rigid)				544-339-4
	Averaging	16 feet (flexible)				544-339-8
		24 feet (flexible)	544-342-16			
		8 feet (flexible)	544-342-24			
		18 inches (rigid)	544-342-8			
		24 inches (rigid)	544-343-18			
		36 inches (rigid)	544-343-24			
		48 inches (rigid)	544-343-36			
1K $\Omega$ Pt RTD (385a)	Point	4 inches (rigid)	$\pm 0.54^\circ\text{F}$ ( $\pm 0.3^\circ\text{C}$ ) @ 32°F (0°C)	544-343-48		
		8 inches (rigid)		QAM2012.010		
		18 inches (rigid)		QAM2012.020		
	Averaging	8 feet (flexible)		QAM2012.045		
		16 feet (flexible)		QAM2012.250		
		24 feet (flexible)		QAM2012.500		
4 to 20 mA	Point	18 inches (rigid)		-4°F to 122°F (-20°C to 50°C)	QAM2012.750	
		4 inches (rigid)			544-560-18	
		8 inches (rigid)			544-560-4	
		18 inches (rigid)			544-560-8	
		Averaging			4 inches (rigid)	533-376-18
					8 inches (rigid)	533-376-4
	16 feet (flexible)		533-376-8			
	24 feet (flexible)		533-380-16			
	8 feet (flexible)		533-380-24			
	8 feet (flexible)		533-380-8			
	Point	18 inches (rigid)	20°F to 120°F (-7°C to 49°C)	535-490-18		
		4 inches (rigid)		535-490-24		
		8 inches (rigid)		535-490-36		
		Averaging		36 inches (rigid)	535-490-48	
				48 inches (rigid)	533-377-18	
		Point		18 inches (rigid)	30°F to 250°F (-1°C to 121°C)	533-377-4
	4 inches (rigid)		533-377-8			
	8 inches (rigid)					
For Use with Siemens TEC Only	Point	4 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)		
		4 inches (rigid), Bracket		538-871		
		18 inches (rigid)		540-128		
				540-739		

### Accessories

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

AQM2000

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