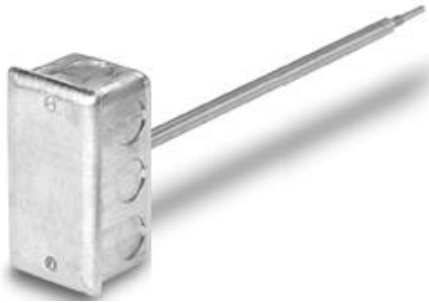


Duct Temperature Sensors



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"> 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 • -4°F to 122°F <ul style="list-style-type: none"> • 20°F to 120°F • 30°F to 250°F 10K Ω Matched Pair Thermistor <ul style="list-style-type: none"> • (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				
72 inches (flexible)		540-246-72							
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)	$\pm 0.4^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$) @ 77°F (25°C)	QAM2030.010			
		8 inches (rigid)				QAM2030.020			
		18 inches (rigid)				QAM2030.045			
	Averaging	8 feet (flexible)				QAM2030.250			
		16 feet (flexible)				QAM2030.500			
		24 feet (flexible)				QAM2030.750			
10K Ω Type III Thermistor	Point	4 inches (rigid)			$\pm 0.72^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 32°F (0°C)	$\pm 0.72^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 32°F (0°C)	QAM2032.010		
		8 inches (rigid)					QAM2032.020		
		18 inches (rigid)					QAM2032.045		
	Averaging	8 feet (flexible)					QAM2032.250		
		16 feet (flexible)					QAM2032.500		
		24 feet (flexible)	QAM2032.750						
1K Ω @ 32F Ni RTD	Point	4 inches (rigid)	$\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C)			$\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C)	QAM2020.010		
		8 inches (rigid)					QAM2020.020		
	Averaging	18 inches (rigid)					QAM2020.045		
		16 feet (flexible)					QAM2020.500		
1K Ω @ 70°F Ni RTD	Point	8 inches (rigid)				$\pm 0.72^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 32°F (0°C)	$\pm 0.72^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 32°F (0°C)	QAM2021.020	
		18 inches (rigid)						QAM2021.045	
	Averaging	24 feet (flexible)		QAM2021.750					
		4 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)			$\pm 0.54^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$) @ 32°F (0°C)	544-339-4	
		8 inches (rigid)						544-339-8	
		Averaging						16 feet (flexible)	544-342-16
	24 feet (flexible)							544-342-24	
	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				
	1K Ω Pt RTD (385a)	Point			4 inches (rigid)			$\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C)	$\pm 0.75^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 75°F (24°C)
8 inches (rigid)			QAM2012.020						
Averaging		18 inches (rigid)	QAM2012.045						
		8 feet (flexible)	QAM2012.250						
4 to 20 mA	Point	16 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)		QAM2012.500		
		24 feet (flexible)				QAM2012.750			
		Averaging				4 inches (rigid)	-4°F to 122°F (-20°C to 50°C)		544-560-18
						8 inches (rigid)			544-560-4
						18 inches (rigid)			544-560-8
				Point		4 inches (rigid)			533-376-18
	8 inches (rigid)		533-376-4						
	16 feet (flexible)		533-376-8						
	Averaging	24 feet (flexible)	533-380-16						
		8 feet (flexible)	533-380-24						
		18 inches (rigid)	533-380-8						
		24 inches (rigid)	535-490-18						
		36 inches (rigid)	535-490-24						
		48 inches (rigid)	535-490-36						
	Point	18 inches (rigid)	30°F to 250°F (-1°C to 121°C)	535-490-48					
		4 inches (rigid)	533-377-18						
		8 inches (rigid)	533-377-4						
	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)	533-377-8		
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

Information in this document is based on specifications believed correct at the time of publication. The right is reserved to make changes as design improvements are introduced. Product or company names mentioned herein may be the trademarks of their respective owners. © 2018 Siemens Industry, Inc.

Siemens Industry, Inc.
Building Technologies Division
1000 Deerfield Parkway
Buffalo Grove, IL 60089-4513
USA
+ 1 847-215-1000

Your feedback is important to us. If you have comments about this document, please send them to SBT_technical.editor.us.sbt@siemens.com

Document No. 149-915
Printed in the USA
Page 2 of 2