

Outdoor Temperature Sensors



Metal



Plastic (RTD/Thermistor)



Plastic (0 to 10V/4 to 20 mA)

Description

Siemens Outdoor Temperature Sensors monitor and transmit changes in temperature to the HVAC control system. The sensor resistance varies proportionally to the actual temperature being measured.

Units are offered in traditional metal housing as well as modern and aesthetically pleasing polycarbonate housings that blend into today's architectural trends. All are ruggedly designed and built for years of weatherproof, outdoor service.

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

Features

- Variety of sensing elements.
- Responsive to temperature changes.
- Accurate and reliable indication of temperature.
- Easy installation requires no 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 20 mA
Accuracy	See Table 1.

Table 1. Product Ordering Information.

Housing Material	Output Signal	Measuring Range	Accuracy	Product Number
Metal	100K Ω Thermistor	-40°F to 150°F (-40°C to 65°C)	$\pm 0.50^\circ\text{F}$ ($\pm 0.28^\circ\text{C}$) @ 77°F (25°C)	536-778
	10K Ω Type II Thermistor		$\pm 0.4^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$) @ 77°F (25°C)	QAC2030U
	10K Ω Type III Thermistor			QAC2032U
	1K Ω @ 32°F Ni RTD		$\pm 0.72^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$) @ 32°F (0°C)	QAC2020U
	1K Ω @ 70°F Ni RTD			QAC2021U
	1K Ω Pt RTD (375a)		$\pm 0.54^\circ\text{F}$ ($\pm 0.3^\circ\text{C}$) @ 32°F (0°C)	544-578
	1K Ω Pt RTD (385a)			QAC2012U
	4 to 20 mA			536-768
Polycarbonate	0 to 10V	-58°F to 122°F (-50°C to 50°C)	$\pm 1.6^\circ\text{F}$ ($\pm 0.89^\circ\text{C}$)	QAC3161
	10K Ω Type II Thermistor	-40°F to 158°F (-40 to 70°C)	$\pm 0.81^\circ\text{F}$ ($\pm 0.45^\circ\text{C}$) @ 77°F (25°C)	QAC2030
	1K Ω @ 32°F Ni RTD	-58°F to 158°F (-50°C to 70°C)	$\pm 0.36^\circ\text{F}$ ($\pm 0.2^\circ\text{C}$) @ 32°F (0°C)	QAC22
	1K Ω Pt RTD (385a)	-40 to 158°F (-40 to 70°C)	$\pm 0.54^\circ\text{F}$ (0.3°C) @ 32°F (0°C)	QAC2012
	4 to 20 mA	-58° to 122°F (-50° to 50°C)	$\pm 1.6^\circ\text{F}$ ($\pm 0.9^\circ\text{C}$)	QAC3171

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