

Description and Application

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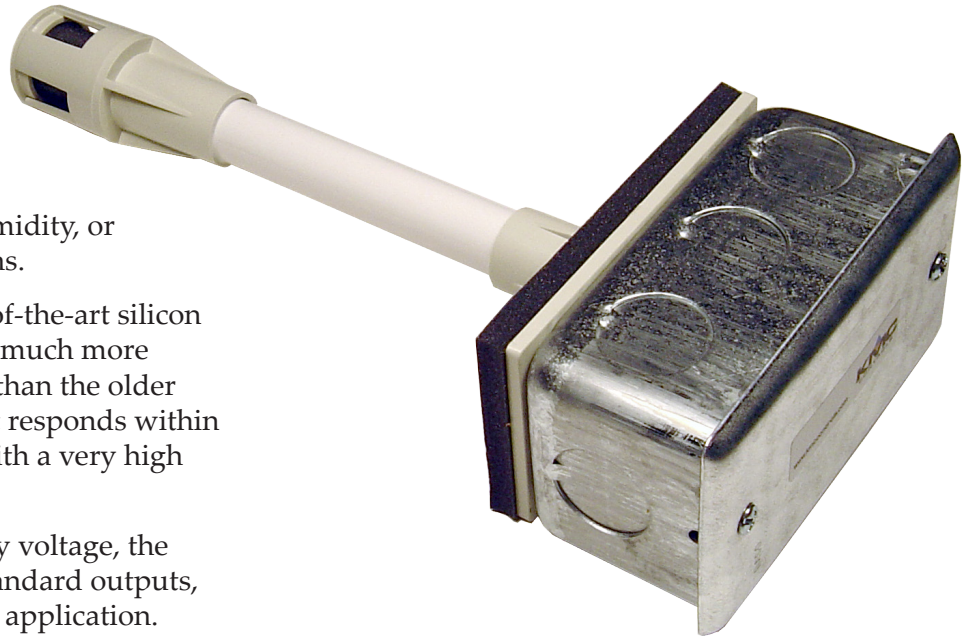
of-the-art silicon
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Able to accept VAC or VDC supply voltage, the THE-1002 offers three different standard outputs, any one of which may be used per application. This reduces the need to stock multiple transmitters to accommodate several output requirements.

The THE-1002 also contains a thermistor for measuring duct temperature. The 10,000 ohm (@ 77° F) thermistor provides precise, stable temperature sensing.

The sensor probe is filtered to reduce the possibility of contamination from airborne dirt and dust.

An integral housing affords multiple 1/2-inch conduit knockouts for ease of wiring during installation.

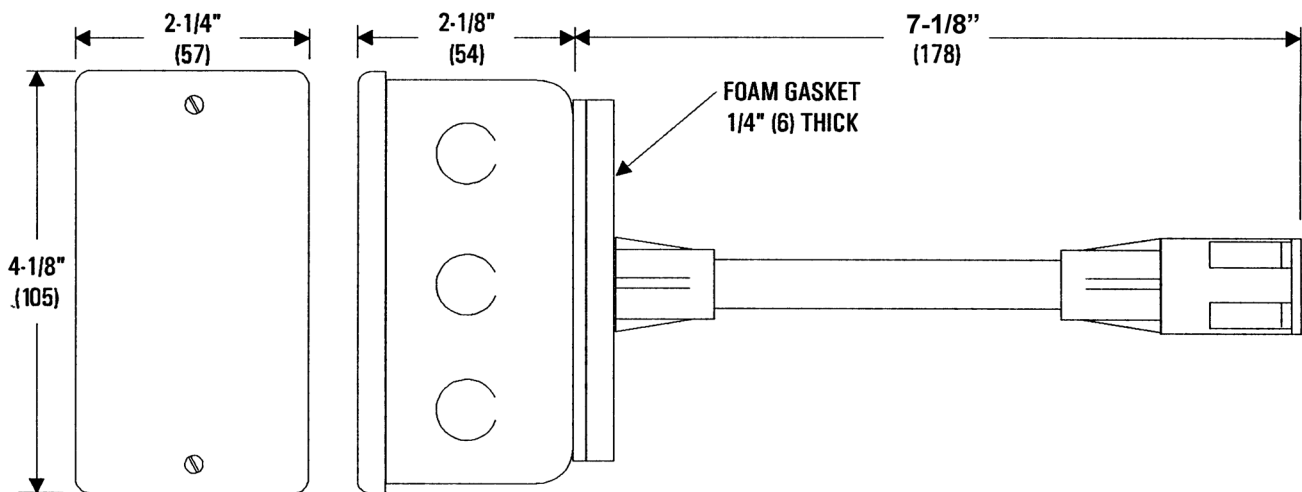


Features

- ◆ CMOS chip humidity sensor provides excellent linearity, sensitivity, and reliability
- ◆ Type II 10,000 ohm thermistor for temperature sensing
- ◆ Transmits separate temperature and humidity signals
- ◆ Accepts 24 VAC or 28 VDC supply voltage
- ◆ Three standard outputs
- ◆ Filtered sensor probe

Details

All dimension are in inches (mm).



Specifications

Supply Voltage	24 VAC -15%, +20%; 28 to 40 VDC
Supply Power	0.75 VA at 24 VAC 12.5 mA at 28 VDC
Humidity Element	
• Output Range	0 to 100% RH
• Sensing Accuracy	@ 25° C ±2% RH over the 10% to 90% RH range
Output Signal over 0 to 100% RH	0 to 5 VDC, 0 to 10 VDC, or 4 to 20 mA
Output Capacity	
• 0-5 or 0-10 VDC	capable of driving 1,000 ohms or greater
• 4-20 mA	(24 VAC or 28 VDC supply) 250 ohm min. to 650 ohm max.

Temperature Sensor

• Type	Type II thermistor
• Accuracy	±0.36° F (±0.20° C)
• Resistance	10,000 ohm @ 77° F (25° C)
• NTC	4.37%/° C @ 25° C
• Dissipation	2 mW/° C
Constant	

Wire Size	18 to 22 AWG with a 250-foot length, maximum
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Material	ABS UL Flame Class 94
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Weight	12 oz. (34 kg)
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Temperature Limits

• Operating	40° to 120° F (4° to 49° C)
• Shipping	-40° to 140° F (-40° to 60° C)
• Humidity	0 to 100% relative humidity, non-condensing

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