



STE-5200, 5300 Series Room Temperature Sensors



The KMC STE-5200/5300 series room temperature sensors are designed for use in KMC Digital or other building automation systems. They incorporate a 10,000 W (@ 77°F) thermistor for the sensing element, providing precise, stable temperature sensing. All models provide 10,000 W (5,000 W @ 70°F) setpoint adjustment capability which may be restricted to a single setpoint or specific range.

Models are available to provide an interface, utilizing an RJ11 in-line female connector, to the associated KMC Digital controller. The STE-5224/5324 models provide 2 dual color lighted push-buttons for on/off or override functions with 3 levels of indication: off, red and green.

Models are available with light almond or white ABS covers. Metal covers are optional in brushed brass, aluminum or painted white or light almond finishes. Mounting kits are also available.

THE-1001, 1002 Duct Mounted Humidity Transmitters



The KMC THE-1001/1002 Duct Mounted Humidity Transmitters are designed for building management systems used in hospitals, museums, or other facilities requiring accurate relative humidity measurement.

Microprocessor and CMOS technology provide excellent linearity and sensitivity. Able to accept 24 VAC or VDC input, they offer 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 model contains a thermistor which can be used to measure temperature within the duct.

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

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

Specifications

Sensor	
Accuracy	± 0.36°F (± 0.20° C)
Resistance	10,000 W @ 77° F (25° C)
NTC	4.37%/°C @25°C
Dissipation	
Constant	2.8 mW/°C
KMC Digital	
Range	#4/#5
Setpoint Potentiometer	
Range	85°F (29°C) = 1410 W 70°F (21°C) = 5000 W 55°F (13°C) = 8590 W
Pushbuttons	
Left	Momentary, shunts temp. sensor
Right	Momentary, shunts potentiometer
Indication	
	Bipolar red/green LED, 12 VDC max.
Ambient Limits	
	Operating: 40°–120°F (4°–49°C)

Models

Horizontal (Order appropriate vertical scale plate if vertical mounting required).

STE-5*12-10	Temperature sensor, °F
STE-5*12-11	Temperature sensor, °C
STE-5*24-10	Temperature sensor, °F, RJ11 connector and push-buttons
STE-5*24-11	Temperature sensor, °C, RJ11 connector and push-buttons
STE-5*25-10	Temperature sensor, °F, RJ11 connector
STE-5*25-11	Temperature sensor, °C, RJ11 connector
*: 2 = Light almond; 3 = white	

Specifications

Input Power	0.5 VA
Sensing Accuracy	±2% at 25°C (10 – 90% RH)
Outputs	
	1–5 volts, 0–10 volts, 4–20 mA for 0–100% RH
Output Capacity	
	0–5 or 0–10 V capable of driving 1000 Ω or greater
	4–20 mA (24 VAC supply) 650 Ω max.
	4–20 mA (24 VDC supply) 590 Ω max.
Thermistor (THE-1002 only)	
Accuracy	±0.36°F (-0.2°C)
Resistance	10,000 Ω @ 77° F (25° C)
NTC	4.37%/°C @25°C
Dissipation	
Constant	7 mW/°C
KMC Digital	
Range	#4/#5
Probe Material	PVC, ABS UL Flame Class 94 HB
Ambient Limits	Operating: 40°–120°F (4°–49°C)

Models

THE-1001	Duct mounted humidity sensor only
THE-1002	Duct mounted humidity sensor with temperature sensor