TEMPERATURE KELE ROOM THERMISTOR AND RTD TEMPERATURE SENSOR KTR* SERIES

DESCRIPTION

The KTR* Room Temperature Sensor is a costeffective room temperature sensor with an accuracy of ± 0.5 °F (± 0.28 °C). The thermistor is made of a very stable, pre-aged material that offers the reliability needed in control systems. The platinum RTD comes in 100Ω and 1000Ω and is compatible with most HVAC systems. All sensors come with a three-year warranty.

FEATURES

- Economical
- Attractive new design
- Three-year warranty
- · Durable housing
- · White color
- · Thermistor or RTD
- · Locking cover screws

APPLICATION

The KTR* Series is designed to be wall mounted indoors where appearance and accuracy are important. The sensor may be mounted directly to the drywall or on standard electrical boxes. It comes in all the most common thermistors or RTDs. Options may be mixed and matched for each application.



SPECIFICATIONS Accuracy

Thermistor ±0.50°F (±0.28°C) **RTD** ±0.60°F (±0.33°C)

Sensor types

Thermistor @ 77°F $2.252 \text{ k}\Omega$, $3 \text{ k}\Omega$, $10 \text{ k}\Omega$, $20 \text{ k}\Omega$, $100 \text{ k}\Omega$

RTD @ 32°F Platinum 100Ω , 385 curve

Platinum 1000Ω , 385 curve Platinum 1000Ω , 375 curve

Temperature range

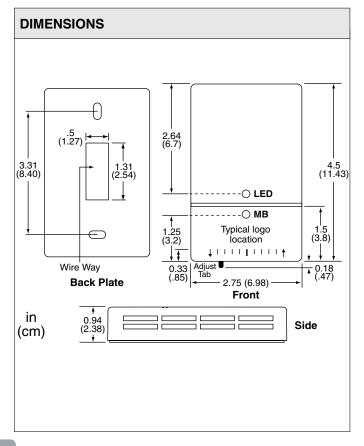
Thermistor 10°F to 230°F (-12° to 110°C) **RTD** -67° to 240°F (-55° to 115°C) **Temperature response** NTC - Thermistors, PTC - RTDs See Sensor Resistance Charts in Sensitivity the Technical Reference section

Stability

Thermistor 0.24°F (0.13°C) over five years

RTD 100% (no drift platinum)

Connections **Terminals Enclosure** White plastic Weight 0.2 lb (0.09 kg) Warranty 3 years



TEMPERATURE

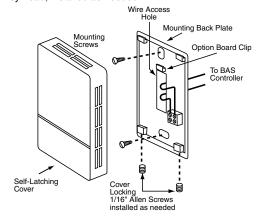
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MOUNTING AND SENSOR ONLY WIRING

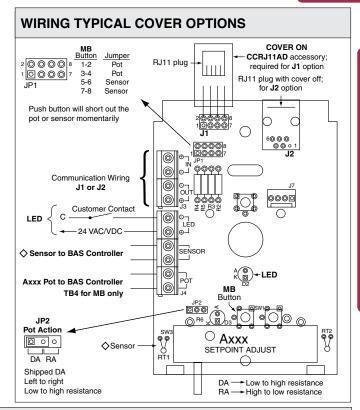
Toggle bolts or other direct wall-mount screws can be used where back box is not required. Adapters are not required when mounting directly to electrical outlet boxes.

Basic model comes with screw terminal block, white decorator faceplate, two #6-32 screws for handy-box mounting, and two #6 x 1" screws for direct wall mounting. Locking cover screws are #6-32 with a 1/16" Allen key head, installed as needed.



The sensor should be mounted approximately 5' (1.5m) above the floor, on an interior wall, out of the sun, and away from any heating or cooling generating devices.

Note: Adjust option requires option board removal to mount back plate.



ORDERING INFORMATION

MODEL	DES	DESCRIPTION		
TR	Kele room sensor housing			
	SENSOR SELECTION			
	3	10,000Ω thermistor @ 77°F (25°C), Type III		
	21	2252Ω thermistor @ 77°F (25°C), Type II		
	22	3000Ω thermistor @ 77°F (25°C), Type II		
	24	10,000Ω thermistor @ 77°F (25°C), Type II		
	27	100,000Ω thermistor @ 77°F (25°C), Type II		
	42	20,000Ω thermistor @ 77°F (25°C), Type IV		
	81	100Ω RTD @ 32°F (0°C), 385 platinum curve (yellow leads)		
	85	1000Ω RTD @ 32°F (0°C), 385 platinum curve (blue leads)		
	91	1000Ω RTD @ 32°F (0°C), 375 platinum curve (green leads)		
		ROOM SENSOR OPTIONS (List options alphabetically with dashes)		
		A100K	Setpoint adjust with 100,000Ω span	
		A10K	Setpoint adjust with 10,000Ω span	
		A20K	Setpoint adjust with 20,000Ω span	
		A400	Setpoint adjust with 400Ω span (R5 for offset)	
		CL1	Custom logo one color (CL2=two color, CL3=three color)	
		D	Dual sensors	
		J1	RJ11 externally-accessible communication jack(CCRJ11AD required)	
		J2	Internal RJ11 communication jack	
		LED	LED lamp indicator, standard 24 VAC/VDC voltage	
		MB	Momentary pushbutton switch, jumpered across sensor or pot (JP1)	
		N	NIST Certificate of conformance	
		N1	NIST certificate, one reference point 32°F(0°C)	
		N2	NIST certificate, two reference points 32°F/158°F(0°C/70°C)	
		N3	NIST certificate, three reference points 32°F/77°F/158°F(0°C/25°C/70°C	
		R	Rugged moistureproof coating 3.5"	
		R#	Rugged moistureproof coating. # equals number of feet of the coating	
		TB4	Separate termination for MB option	
		XP	Matched sensor pair, matched to ±0.1°F, 0.05°C (must order two sensors	
		XZ	Three wire RTD connections(Type 81 only)	

Sample Order

KTR3 Kele room sensor

with 10,000 Ω Type III thermistor

KTR85-A10K-MB Kele room sensor

with 1000 Ω 385 RTD with $10k\Omega$ adjust pot and momentary switch

RELATED PRODUCTS

10-531 Wall adapter plate 7" x 5.25" CCRJ11AD J1 option adaptor Cover mounting screwdriver