TEMPERATURE

ROOM TEMPERATURE THERMISTOR AND RTD SENSORS





The Kele Model KTR* Room Temperature Thermistor and RTD Sensor is a cost-effective room temperature sensor with an accuracy of $\pm 0.5^{\circ}$ 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 100 ohm and 1000 ohm and is compatible with most HVAC systems. All sensors come with a three-year warranty.

FEATURES

- Economical
- · Attractive new design
- Three-year warranty
- ±0.5°F (0.28°C) accuracy
- Durable housing
- White color
- Thermistor or RTD
- Locking cover screws



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.





KTR*-A10K-J1-LED-MB

KTR*

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SPECIFICATIONS

Accuracy

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

Sensor Type

Thermistor 2.252 kΩ, 3 kΩ, 10 kΩ Type II, III &

III w/11K shunt, 20 k Ω , 100 k Ω

RTD

 Type 71, 81
 100Ω Pt 385 Curve

 Type 85
 1000Ω Pt 385 Curve

 Type 91
 1000Ω Pt 375 Curve

Temperature Range

Thermistor/RTD -40° to 221°F (-40° to 105°C)

Temperature Coefficient

Thermistor Negative temperature coefficient Positive temperature coefficient

Temperature Stability

Thermistor 0.24°F (0.13°C) over five years Max 0.04% after 1k hours @ 500

°C

Heat Dissipation 2.7 mW/°C (power needed to raise

the temperature 1°C)

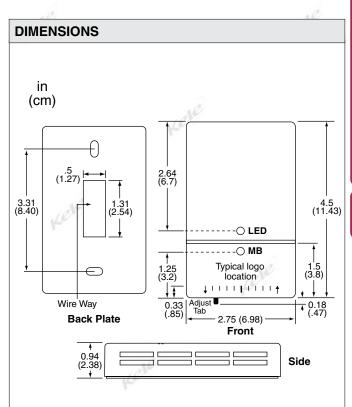
Enclosure Rating NEMA 1, White plastic

Mounting Directly to wall or single gang back

box

Wiring Terminations Terminals
Weight 0.2 lb (0.09 Kg)

Approvals CE Warranty 3 years



IN-STOCK ORDERS AVAILABLE TO SHIP SAME-DAY

kele.com | 877-826-9037 USA

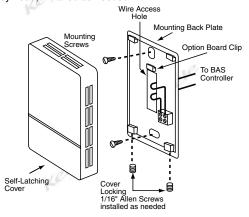
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ROOM TEMPERATURE THERMISTOR AND RTD SENSORS KTR* SERIES

MOUNTING AND SENSOR ONLY WIRING

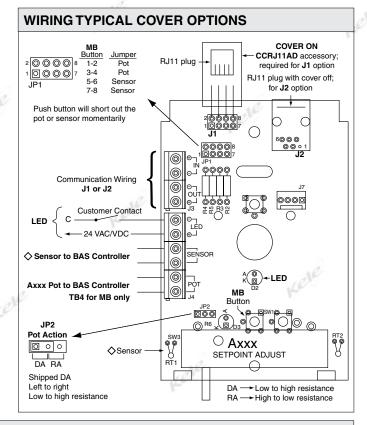
Toggle bolts or other direct wall-mount screws can be used where back box is not required. Adapters are not required when mounting directly to electrical outlet boxes.

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	ESCRIPTION		
KTR	Kele	room sensor housing		
	SENS	SOR SELECTION		
	3	10,000Ω thermistor @ 77°F (25°C), Type III		
	11K	10, 000Ω thermistor @ 77°F (25°C), Type III with 11K shunt		
	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		
	71	100 ultra high accurat RTD @ 32°F (0°C), 385 platinum curve (gray leads)		
	81	100Ω RTD @ 32°F (0°C), 385 platinum curve (yellow leads)		
	91	1000Ω RTD @ 32°F (0°C), 375 platinum curve (green leads)		
		ROOM SENSOR OPTIONS		
		XA100K	Setpoint adjust with 100,000Ω span	
		XA20K	Setpoint adjust with 20,000Ω span	
		XA400	Setpoint adjust with 400Ω span (R5 for offset)	
		XCL1	Custom logo one color (CL2=two color, CL3=three color)	
		XD	Dual sensors	
		XJ1	RJ11 externally-accessible communication jack (CCRJ11AD required)	
		XJ2	Internal RJ11 communication jack	
		XLED	LED lamp indicator, standard 24 VAC/VDC voltage	
		XM	Momentary pushbutton switch, jumpered across sensor or pot (JP1)	
		XN	Certificate of conformance	
		XN1	NIST certificate, one reference point 32°F (0°C)	
		XN2	NIST certificate, two reference points 32°F/158°F (0°C/70°C)	
		XN3	NIST certificate, three reference points 32°F/77°F/158°F (0°C/25°C/70°C)	
		TB4	Separate termination for MB option	
		XP	Matched sensor pair, matched to ±0.1°F, 0.05°C (must order two sensors)	
		XPA	Ultra high accurance, themistors only ±0.135°F, 0.075°C	
		XPL	Red LED lamp externally powered 24VAC/VDC	

Sample Order

KTR3

Kele room sensor with 10,000Ω Type III

thermistor

RELATED PRODUCTS 10-531 White adaptor plate 7" x 5.25" (KTR,KHR) Adapter cable for CC-RJ11AD XJ1 option with female RJ11 8-pin connector Mounting screwdriver KT1 1/16" allen key 100 ohm, Type 81 **T81U-XR** 4-20 mA temperature transmitter, custom rangeable T85U-XR 1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable

T91U-XR 1000 ohm, Type 91 4-20 mA temperature transmitter,

custom rangeable

FREE TECH SUPPORT FOR THE LIFE OF YOUR PRODUCTS

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