TEMPERATURE

ROOM THERMISTOR AND RTD TEMPERATURE SENSOR KTES* SERIES



DESCRIPTION

The Kele KTES* Series Room Thermistor and RTD Temperature Sensor is a cost-effective room temperature thermistor 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 most HVAC systems, and it comes with a three-year warranty.

FEATURES

- Economical
- · Attractive design
- Three-year warranty
- ±0.5°F (±0.28°C) accuracy
- Durable housing
- White color

OPTIONS

- Setpoint slide adjust
- · Momentary override switch



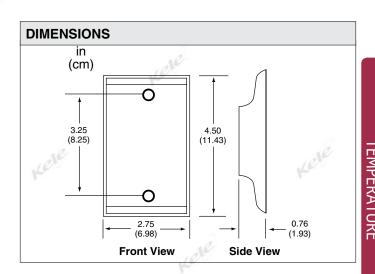
The KTES* Series is designed to be wall mounted indoors where appearance is important. The sensor may be mounted directly to the drywall or on a standard US electrical outlet bow without adapters.







KTES*



SPECIFICATIONS

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

Sensor Type

Thermistor $2.252 \text{ k}\Omega$, $3 \text{ k}\Omega$, $10 \text{ k}\Omega$ 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 **RTD** Positive temperature coefficient

Temperature Stability

Weight

Thermistor Negative temperature coefficient Max 0.04% after 1k hours @ 500°C 2.7 mW/°C (power needed to raise **Heat Dissipation**

the temperature 1°C)

Enclosure Rating NEMA 1, White plastic

Mounting Directly to wall or single gang box

Wiring Terminations Terminals 0.12 lb (0.05 Kg)

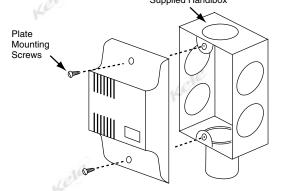
Warranty 3 years

Approvals CE

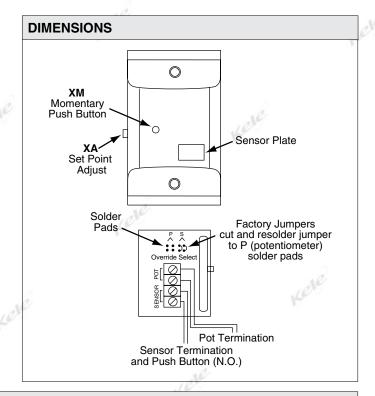
MOUNTING

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

Basic model comes with screw terminal block, two #6-32 screws for handibox mounting of the standibox mounting. Supplied Handibox



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



ORDERING INFORMATION

MODEL	DESCRIPTION	
KTES3	10,000Ω Room Thermistor @ 77°F (25°C), Type III Material (gray leads)	
KTES21	2252Ω Room Thermistor @ 77°F (25°C), Type II Material (green leads)	
KTES22	3000Ω Room Thermistor @ 77°F (25°C), Type II Material (blue leads)	
KTES24	10,000Ω Room Thermistor @ 77°F (25°C), Type II Material (yellow leads)	
KTES27	100,000Ω Room Thermistor @ 77°F (25°C), Type II Material (gray leads)	
KTES42	20,000Ω Room Thermistor @ 77°F (25°C), Type IV Material (green leads)	
KTES81	100Ω Room RTD @ 32°F (0°C), 385 platinum curve, (yellow leads)	
KTES85	1000Ω Room RTD @ 32°F (0°C), 385 platinum curve, (blue leads)	
KTES91	1000Ω Room RTD @ 32°F (0°C), 375 platinum curve, (green leads)	
	OPTIONS	
	XA	Setpoint adjustment (10,000 to 30,000, resistance input)
	XA2K	Setpoint adjustment (1,000 to 1,400, resistance input)
	XA10K	Setpoint adjustment (1,000 to 3,000Ω, resistance input)
	XD	Dual sensors
	XM	Momentary switch (jumpered across sensor)
	XN	NIST 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)
	XP	Matched sensor pair, matched to ±0.1°F, 0.05°C (must order two sensors)
	XZ	Three wire RTD connections

RELATED PRODUCTS

T85U-XR
1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
T81U-XR
100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
T91U-XR
1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable
UR
Moisture-resistant three-wire butt splice