

# TEMPERATURE

## BUTTON STYLE THERMISTOR AND RTD SENSORS KTB\* SERIES



### DESCRIPTION

The Kele KTB\* Series Button Style Flush-Mount Thermistor and RTD Sensors provide room temperature sensing for building automation systems. The active sensing element is made of a highly stable, thermistor material or platinum RTD. This design provides moisture/vapor resistance and is bonded to either brass, steel or aluminum button style housing easily mountable into any wall. This sensor is intended for interior use only.



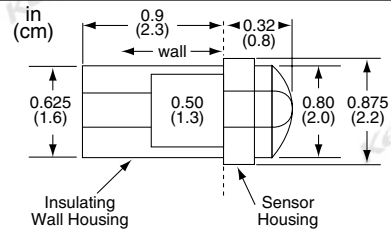
KTB\*



### FEATURES

- Three-year warranty
- $\pm 0.50^{\circ}\text{F}$  ( $\pm 0.2^{\circ}\text{C}$ ) thermistor accuracy
- $\pm 0.60^{\circ}\text{F}$  ( $\pm 0.33^{\circ}\text{C}$ ) RTD accuracy
- Ultra high accuracy available
- Wide selection of thermistor and RTD curves
- Optional brass, steel, or aluminum metal button style housing
- Small, nearly invisible footprint

### DIMENSIONS



### SPECIFICATIONS

<b>Accuracy</b>		<b>Temperature Stability</b>	
<b>Thermistor</b>	$\pm 0.50^{\circ}\text{F}$ ( $0.28^{\circ}\text{C}$ )	<b>Thermistor</b>	0.24F (0.13) over five years
<b>RTD</b>	$\pm 0.60^{\circ}\text{F}$ ( $0.33^{\circ}\text{C}$ )	<b>RTD</b>	Max 0.04% after 1k hours @ 500 °C,
<b>Sensor Type</b>		<b>Heat Dissipation</b>	2.7 mW/°C (power needed to raise the temperature 1°C)
<b>Thermistor</b>	2.252 k $\Omega$ , 3 k $\Omega$ , 10 k $\Omega$ Type II, III & III w/11K shunt, 20 k $\Omega$ , 100 k $\Omega$	<b>Enclosure Rating</b>	NEMA 1, Button style brass, aluminum, 304 Stainless steel
<b>RTD</b>		<b>Mounting</b>	Directly to wall
<b>Type 71, 81</b>	100 $\Omega$ Pt 385 Curve	<b>Wiring Terminations</b>	8' (2.4m) of 24 AWG gray wire leads, type 71 & 81 sensors have 18" leads
<b>Type 85</b>	1000 $\Omega$ Pt 385 Curve	<b>Weight</b>	0.25 lb (0.10 Kg)
<b>Type 91</b>	1000 $\Omega$ Pt 375 Curve	<b>Approvals</b>	CE
<b>Temperature Range</b>		<b>Warranty</b>	3 years
<b>Thermistor/RTD</b>	-40° to 221°F (-40° to 105°C)		
<b>Temperature Coefficient</b>			
<b>Thermistor</b>	Negative temperature coefficient		
<b>RTD</b>	Positive temperature coefficient		

### ORDERING INFORMATION

MODEL	DESCRIPTION
KTB3	10,000 $\Omega$ button style thermistor @ 77°F (25°C), Type III (gray leads)
KTB11K	10,000 $\Omega$ button style thermistor @ 77°F (25°C), Type III with shunt (gray leads)
KTB21	2252 $\Omega$ button style thermistor @ 77°F (25°C), Type II (gray leads)
KTB22	3000 $\Omega$ button style thermistor @ 77°F (25°C), Type II (gray leads)
KTB24	10,000 $\Omega$ button style thermistor @ 77°F (25°C), Type II (gray leads)
KTB27	100,000 $\Omega$ button style thermistor @ 77°F (25°C), Type II (gray leads)
KTB42	20,000 $\Omega$ button style thermistor @ 77°F (25°C), Type IV (gray leads)
KTB71	100 ultra high accurat RTD @ 32°F (0°C), 385 platinum curve (gray leads)
KTB81	100 $\Omega$ button style RTD @ 32°F (0°C), 385 platinum curve (gray leads)
KTB85	1000 $\Omega$ button style RTD @ 32°F (0°C), 385 platinum curve (gray leads)
KTB91	1000 $\Omega$ button style RTD @ 32°F (0°C), 375 platinum curve (gray leads)
<b>OPTIONS</b>	
B	Brass housing
A	Aluminum housing
S	Steel housing

### RELATED PRODUCTS

<b>T81U-XR</b>	100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
<b>T85U-XR</b>	1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
<b>T91U-XR</b>	1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable
<b>UR</b>	Moisture-resistant three-wire butt splice
<b>TB-A</b>	Aluminum button enclosure only
<b>TB-B</b>	Brass button enclosure only
<b>TB-S</b>	Stainless Steel button enclosure only