TEMPERATURE

UNIVERSAL-MOUNT THERMISTOR AND RTD SENSORS



TEMPERATURE

19

DESCRIPTION

The Kele KTU* Series Universal-Mount Thermistor and RTD Sensors provide remote temperature sensing in multiple applications such as duct, OSA, and immersion installations for building automation systems. The active sensing element is a highly stable thermistor material or platinum RTD.

The sensing element is sealed with a thermally conductive compound in a 4-7/8" (12.38 cm) long stainless steel probe and is attached to a 2.5" (6.35 cm) square enclosure. The tabs on the enclosure provide mounting ears for direct duct mounting and are easily removable if they are not needed. This multipurpose enclosure minimizes the number of stock parts required to handle multiple applications.

FEATURES

- Three-year warranty
- · Flame retardant, plenum rated
- · Adaptable with many mounting options
- 304 stainless steel waterproof probes
- Paintable plastic
- NEMA 3R, IP22

MOUNTING

Duct: Drill a 9/16" (1.43 cm) hole for insertion into the duct. Attach probe snug to the duct with self tapping screws.

Well Insertion: Install the well into the customer-supplied 1/2" saddle (Thredolet®), then thread the sensor into the well. For better heat transfer you may apply thermal compound to the tip of the sensor before insertion. Mounting tabs may be removed. OSA: Insert the shield into the bracket and thread the KT-U* through

OSA: Insert the shield into the bracket and thread the KT-U* through the gasket to the shield. Secure the assembly to the wall using the appropriate hardware for the wall surface. The ideal orientation of the sensor is horizontal with the knockout facing down and located on an outside wall with a shaded exposure. Mounting tabs may be removed. The sensor and shield may be painted to the architect's specifications.





Do not mount sensor in vertical position with the

eld pointina up

When choosing location for any outdoor air temperature sensors: 1. Do not mount above building openings (windows, doors) 2. Keep sensor out of direct sunlight

SPECIFICATIONS



KTU* SERIES

PROBE APPLICATIONS

The **Duct Temperature** application is designed for direct mounting on sheet metal duct systems. The sensor is point sensitive and comes standard with a 4-7/8" (12.38 cm) insertion depth. The XL option is available for custom lengths up to 36" (91.44 cm).

The **Immersion Temperature** application is designed to be threaded directly into a 1/8" NPT well. The wells are available in brass or 304 stainless steel and are designed for pipe insertion using a 1/2" threaded saddle (Thredolet[®]).

The **Outside Air Temperature** application uses a wall bracket with a vented weather shield to minimize the effect of rain, snow, or other weather-related influences. This rugged enclosure and bracket will ensure long life even in severe weather conditions.

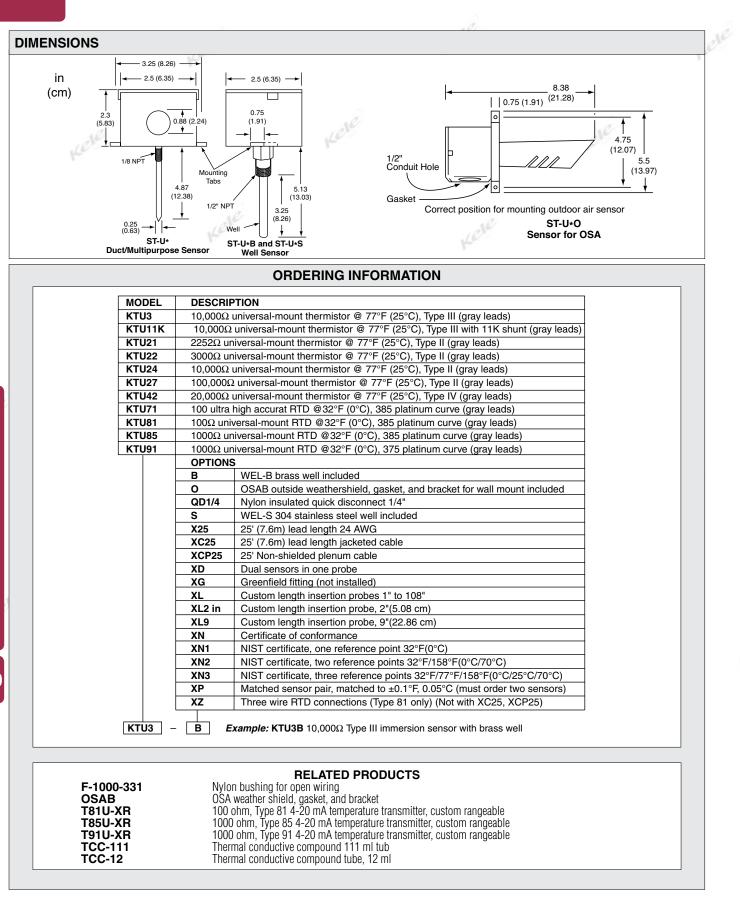
Accuracy	à	Heat Dissipation	2.7 mW/°C (power needed to raise
Thermistor	±0.50°F (0.28°C)	1010	the temperature 1°C)
RTD	±0.60°F (0.33°C)	Enclosure Rating	NEMA 3R, UL 94V-0, plenum-rated
Sensor Type	()	5	plastic, IP22, UV protected with
Thermistor	2.252 kΩ, 3 kΩ, 10 kΩ Type II, III & III		snap-off cover
	w/11K shunt, 20 kΩ, 100 kΩ	Mounting	Directly to duct, immersion well, or
RTD	, ,	5	OSA wall mount with appropriate
Type 71, 81	100Ω Pt 385 Curve		bracket
Type 85	1000Ω Pt 385 Curve	Wiring Terminations	8', 24 AWG gray wire leads,
Type 91	1000Ω Pt 375 Curve	3	type 71 & 81 sensors have 18" leads
Temperature Range		Probe	Seamless 304 stainless steel tube,
Thermistor/RTD	-40° to 221°F (-40° to 105°C)		1/4" OD, 4.87" long
Temperature Coefficient		Weight	0.25 lb (0.11 Kg) w/o options
Thermistor	Negative temperature coefficient	Approvals	CE
RTD	Positive temperature coefficient	Warranty	3 years
Temperature Stability		14	
Thermistor	0.24°F (0.13°C) over five years		
RTD	Max 0.04% after 1k hours @ 500 °C		
	her.		

IN-STOCK ORDERS AVAILABLE TO SHIP SAME-DAY

TEMPERATURE

UNIVERSAL-MOUNT THERMISTOR AND RTD SENSORS

KTU* SERIES



877-826-9037 USA

kele.com