



TEMPERATURE

VAV BOX DUCT TEMPERATURE SENSORS KTV* SERIES

DESCRIPTION

The Kele KTV* VAV Box Duct Thermistor and RTD sensors are designed to be cost-effective with accuracies of 0.5°F (0.28°C). Each mounts directly to the duct and is constructed for easy installation with optional quick disconnects and plenum cable when needed. The thermistor is made of a very stable, pre-aged material that offers long-life reliability for HVAC control. The platinum RTD comes in 100Ω and 1000Ω versions. All sensors come with three-year warranty.

FEATURES

- Economical
- Stainless steel probes
- Three-year warranty
- Wide thermistor or RTD sensor selections
- Simple traditional mounting

OPTIONS

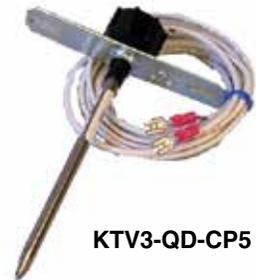
- Greenfield fittings
- Plenum cable
- 1/4" quick connects



KTV3



KTV3-QD



KTV3-QD-CP5



KTV3-GF



KTV3-CP5

SPECIFICATIONS

Accuracy	
Thermistor	±0.50°F (0.28°C)
RTD	±0.60°F (0.33°C)
Sensor Type	
Thermistor	2.252kΩ, 3kΩ, 10kΩ Type II, III & III w/11K shunt, 20kΩ, 100kΩ
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	
Thermistor	0.24°F (0.13°C) over five years
RTD	Max 0.04% after 1k hours @ 500 °C
Heat Dissipation	
	2.7 mW/°C (power needed to raise the temperature 1°C)
Enclosure Rating	
Mounting	Depends on the model
	T-bar with protective grommet seal, Directly to Duct or Single gang box
Wiring Terminations	
	5' (1.5m), 24 AWG gray wire leads with optional quick disconnects and plenum rated cable, type 71 & 81 sensors have 18" leads
Probe	
	Seamless 304 stainless steel tube, 1/4" OD, 4.87" (12.4 cm) long
Weight	
	0.15 lbs (0.07 Kg)
Approvals	
	CE
Warranty	
	3 years

MOUNTING/WIRING

Wiring

Terminate to controller directly with push-on quick connects or to terminals.

Mounting KTV*

Drill a 9/16" (1.43 cm) hole for probe insertion. Using the provided #6 screws, secure to the duct with the T-bar mounting ears.

Basic model comes with 5' (1.5 m) of 24 AWG wire, 4.87" (12.38 cm) probe with T-bar, grommet, and #6 x 1 screws for direct duct mounting.

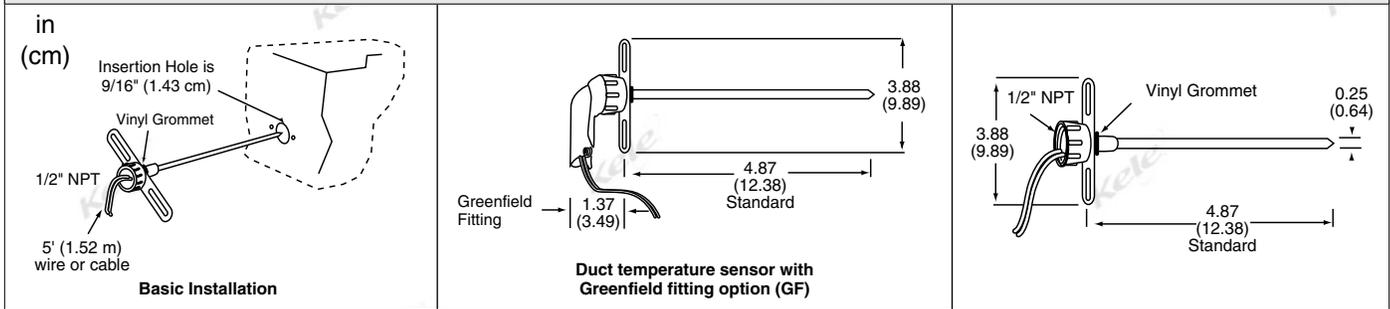
*Select sensor number on ordering information table.

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DIMENSIONS



ORDERING INFORMATION

MODEL	DESCRIPTION
KTV	VAV box duct temperature sensor
SENSOR SELECTION	
3	10,000Ω thermistor @ 77°F (25°C), Type III, (gray leads)
11K	10,000Ω thermistor @ 77°F (25°C), Type III with 11K shunt, (gray leads)
21	2250Ω thermistor @ 77°F (25°C), Type II, (gray leads)
22	3000Ω thermistor @ 77°F (25°C), Type II, (gray leads)
24	10,000Ω thermistor @ 77°F (25°C), Type II, (gray leads)
27	100,000Ω thermistor @ 77°F (25°C), Type II, (gray leads)
42	20,000Ω thermistor @ 77°F (25°C), Type IV, (gray leads)
63	1000Ω nickel RTD @ 32°F (0°C), 385 platinum curve (gray leads)
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 (gray leads)
85	1000Ω RTD @ 32°F (0°C), 385 platinum curve (gray leads)
91	1000Ω RTD @ 32°F (0°C), 375 platinum curve (gray leads)
OPTIONS	
QD¼	Nylon insulated quick disconnect ¼"
X25	25' (7.6m) lead length 24 AWG
XC25	25' (7.6m) lead length 24 AWG jacketed cable
XCP5	5' (1.2m) non-shielded 22AWG plenum cable
XCP25	25' (7.6m) non-shielded 22AWG plenum cable
XD	Dual sensors in one probe
XG	Greenfield fitting (factory installed)
XL	Custom length insertion probes 1" to 60"
XL2 in	Custom length insertion probe, 2"(5.08 cm)
XL9	Custom length insertion probe, 9"(22.86 cm)
XLT	Liquid-tight fitting (factory installed)
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)
XP	Matched sensor pair, matched to ±0.1°F, 0.05°C (must order two sensors)
XW	Weather resistant housing
XZ	Three wire RTD connections (Type 81 only) (Not with XC25, XCP25)

KTV - **3** - **GF** *Example: KTV-3-N1 VAV duct sensor with 10,000Ω thermistor with Greenfield fitting*

RELATED PRODUCTS

T81U-XR	100 ohm, Type 81 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
UR	Moisture-resistant three-wire butt splice