TEMPERATURE

OSA THERMISTOR AND RTD SENSORS

KTOSA* SERIES

DESCRIPTION

The Kele KTOSA* Series OSA Temperature Thermistor and RTD Sensors are very economical and are specifically designed for HVAC applications. The mounting styles are based on proven techniques for installation efficiency and use stainless steel probes for durability. The sensors come with a three year warranty and are made with the highest quality material that offers the reliability needed in HVAC systems.



FEATURES

- Economical
- Proven mounting designs
- Three-year warranty
- NEMA 3R enclosure

APPLICATION

The KTOSA* Series Sensors are used for outside air temperature sensing. The design allows for two-point mounting. The weather shield protects the encapsulated sensor probe from the effects of rain, sleet, and snow.

SPECIFICATIONS

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

Temperature Stability

Thermistor 0.24°F (0.13°C) over five years

100% (no drift platinum) **RTD**

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

the temperature 1°C)

Sensor Type

Thermistor $2.252k\Omega$, $3k\Omega$, $10k\Omega$ Type II, III & III

w/11K shunt, $20k\Omega$, $100k\Omega$

RTD

Type 71, 81 100Ω Pt 385 Curve 1000Ω Pt 385 Curve Type 85 Type 91 1000Ω PT 375 Curve

Temperature Coefficient

Thermistor Negative temperature coefficient **RTD** Positive temperature coefficient

Temperature Range Thermistor/RTD -40° to 221°F (-40° to 105°C) **Enclosure Rating** NEMA 3R, White plastic

Mounting Directly to wall

8', 24 AWG gray wire leads, type 71 **Wiring Terminations**

& 81 sensors have 18" leads

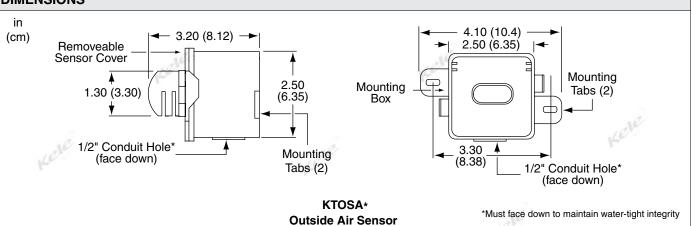
Seamless 304 stainless steel tube **Probe** with 1.5" (3.8 cm) diameter weather

shield

Weight 0.25 lb (0.11 Kg) w/o options

Approvals CE Warranty 3 years

DIMENSIONS





OSA THERMISTOR AND RTD SENSORS KTOSA* SERIES



ORDERING INFORMATION

MODEL	DESCRIPTION		
KTOSA3	OSA temperature sensor, 10,000Ω thermistor Type III, (gray leads)		
KTOS11K	OSA temperature sensor, 10,000Ω thermistor Type III with 11K shunt, (gray leads)		
KTOSA21	OSA temperature sensor, 2250Ω thermistor Type II, (gray leads)		
KTOSA22	OSA temperature sensor, 3,000Ω thermistor Type II, (gray leads)		
KTOSA24	OSA temperature sensor, 10,000Ω thermistor Type II, (gray leads)		
KTOSA27	OSA temperature sensor, 100,000Ω thermistor Type II, (gray leads)		
KTOSA42	OSA temperature sensor, 20,000Ω thermistor Type IV, (gray leads)		
KTOSA71	100 ultra high accurat RTD @ 32°F (0°C), 385 platinum curve (gray leads)		
KTOSA81	OSA temperature sensor, 100Ω RTD 385 platinum curve (gray leads)		
KTOSA85	OSA temperature sensor, 1,000Ω RTD 385 platinum curve (gray leads)		
KTOSA91	OSA temperature sensor, 1,000Ω RTD 375 platinum curve (gray leads)		
	OPTIONS		
	QD¼	Nylon insulated quick disconnect 1/4"	
	X25	25' (7.6m) lead length 24 AWG	
	XC25	25' (7.6m) lead length 24 AWG jacketed cable	
	XCP25	25' (7.6m) non-shielded 22AWG plenum cable	
	XD	Dual sensors	
	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	
	XZ	Three wire RTD connections (Type 81 only) (Not with XC25, XCP25)	

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		