TEMPERATURE

STAINLESS STEEL FLUSH-MOUNT THERMISTOR AND RTD SENSORS KTP* SERIES

DESCRIPTION

The Precon KTP* Series Stainless Steel flush-Mount 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 a 304 stainless steel plate. The back is insulated to reduce interior wall temperature influence. This sensor is intended for interior use only.



- Three-year warranty
- ±0.50°F (±0.28°C) thermistor accuracy
- ±0.60°F (±0.33°C) RTD accuracy
- · Wide selection of thermistor and RTD curves
- · Insulated backing for room temperature response
- · Vandal-resistant flush mounting
- · 304 stainless steel finish
- · Easy to mount to wall or back box
- · Standard size plate to cover mounting holes

APPLICATION

The KTP* Series sensors are designed to be mounted on indoor walls. They are ideal for use in schools or cold storage lockers, where vandalism or fork lifts can damage ordinary wall sensors. The sensors have an insulated back that reduces the conductive influences of wall temperatures, yet allows significant convective influences to be sensed. Security screws (XS option) are available where tamper proofing is required.





OPTIONS

- Setpoint adjustment
- · Momentary switch override
- · Security screws

SPECIFICATIONS			
Accuracy Thermistor RTD	±0.50°F (±0.28°C) ±0.60°F (±0.33°C)	Temperature response Thermistor RTD	Negative temperature coefficient Positive temperature coefficient
Sensor types Thermistor @ 77°F RTD @ 32°F	$2.252~\text{k}\Omega$, $3~\text{k}\Omega$, $10~\text{k}\Omega$, $20~\text{k}\Omega$, $100~\text{k}\Omega$ Platinum 100Ω , 1000Ω , $385~\text{curve}$ Platinum 1000Ω , $375~\text{curve}$	Stability Thermistor RTD Heat dissipation	0.24°F (0.13°C) over five years <0.09°F (0.05°C) over five years 2.7 mW/°C (power needed to
Temp range Thermistor RTD	10° to 230°F (-12° to 110°C) -67° to 240°F (-55° to 115°C)	Connections	raise the temperature by 1°C) 8' (2.4 m) of 24 AWG pre- stripped pigtails
Temp response Stability	NTC - Thermistors, PTC - RTDs	Mounting	Directly to wall or customer- supplied back box no adapters needed for standard boxes
Thermistor RTD	0.24°F (0.13°C) over five years 100% (no drift platinum)	Enclosure Weight Warranty	Brushed stainless steel 0.2 lb (0.09 kg) 3 years

TEMPERATURE

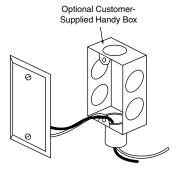
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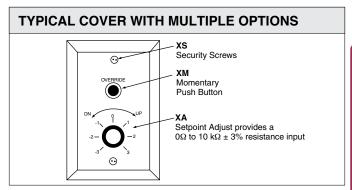
MOUNTING

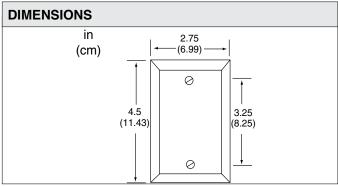
Toggle bolts or other direct wall-mount screws can be used where conduit is not required. Adapters are not required when mounting directly to electrical outlet boxes. Tighten mounting screws, crushing foam gasketing until plate edges lightly touch the wall. Insulate or seal all interior holes to prevent drafts from affecting the temperature readings. Terminate with butt splices or soldering. Wire nuts are not recommended.

Basic model comes with screws for stainless steel faceplate, two #6-32 screws for handy-box mounting, and 8' (2.4m) of 24 AWG wire. Security screws (XS Option) are #6-32 with a spanner head.



The sensor should be mounted approximately five feet above the floor, on an interior wall, away from any heating or cooling generating devices.





ORDERING INFORMATION

MODEL	DESCRIPTION			
KTP3	10,000Ω	10,000Ω flush-mount thermistor @ 77°F (25°C), Type III (gray leads)		
KTP21	2252Ω f	2252Ω flush-mount thermistor @ 77°F (25°C), Type II (green leads)		
KTP22	3000Ω f	3000Ω flush-mount thermistor @ 77°F (25°C), Type II (blue leads)		
KTP24	10,000Ω flush-mount thermistor @ 77°F (25°C), Type II (yellow leads)			
KTP27		100,000Ω flush-mount thermistor @ 77°F (25°C), Type II (gray leads)		
KTP42	20,000	,000Ω flush-mount thermistor @ 77°F (25°C), Type IV (green leads)		
KTP81	100Ω flu	100Ω flush-mount RTD @ 32°F (0°C), 385 platinum curve (yellow leads)		
KTP85	1000Ω f	000Ω flush-mount RTD @ 32°F (0°C), 385 platinum curve (blue leads)		
KTP91	1000Ω f	1000Ω flush-mount RTD @ 32°F (0°C), 375 platinum curve (green leads)		
	OPTION	S (List options in alphabetical order with dashes)		
	QD¼	Nylon insulated guick disconnect ¼"		
	X25	25' (7.6m) lead length 24 AWG		
	XA	Setpoint adjustment (10,000 to 30,000 , resistance input)		
	XA1500 Setpoint adjustment (0 to 1,500, resistance input)			
	XA2K	Setpoint adjustment (1,000 to 1,400 , resistance input)		
	XD	Dual sensors in one probe		
	XK	Custom logo		
	XM	Momentary switch wired N.O. to terminal block		
	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, the		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)		
	XS	Security screws (SD-6 spanner screwdriver required)		
XZ Three wire RTD connections(Optional only on Type 81, st		Three wire PTD connections (Ontional only on Type 91, standard on Type 71)		

RELATED PRODUCTS

with momentary switch

UR Moisture resistant three-wire butt splice KT1 Mounting screwdriver 1/16" Allen key SD-6 Security spanner screwdriver (required for XS option)