

STANDARD SENSOR OPTIONS

Temperature controllers are typically used to increase or decrease the amount of power used to heat or cool a process. There are a variety of thermocouple types made from different alloys which are calibrated to different ranges. The temperature controller receives a signal from the sensor and interprets it as a temperature. To provide the correct temperature, the controller type must match the sensor type. A Type-J thermocouple has to be paired with a

controller that is set to accept a signal from a Type-J thermocouple. Using incompatible sensors and controllers will provide inaccurate temperature measurements.

Sensor placement is important for proper process control. It should be located where the temperature is most critical and should maintain direct contact by using tape, paste, or epoxy.



PT100 RTD Outdoor Sensor with White PTFE Slewing

NOTE: Type-J and K Outdoor Sensors have Brown PTFE Slewing



Type-J or K Indoor Sensor with Fiberglass Slewing

Outdoor Rated Sensors

Part No. Type-J Sensor	Part No. Type-K Sensor	Part No. PT100 RTD Sensor	Length ft (m)	Connector Type
TCJN05-BA*	TCKN05-EA*	THRN05-LA*	5 (1.5)	Standard
TCJN10-BA*	TCKN10-EA*	THRN10-LA*	10 (3.0)	Standard
TCJN25-BA*	TCKN25-EA*	THRN25-LA*	25 (7.6)	Standard
TCJN05-AA	TCKN05-DA	THRN05-HA*	5 (1.5)	Mini
TCJN10-AA	TCKN10-DA	THRN10-HA*	10 (3.0)	Mini
TCJN25-AA	TCKN25-DA*	THRN25-HA	25 (7.6)	Mini
TCJN05-GA*	TCKN05-GA*	THRN05-GA*	5 (1.5)	Bare Leads
TCJN10-GA*	TCKN10-GA*	THRN10-GA*	10 (3.0)	Bare Leads
TCJN25-GA*	TCKN25-GA*	THRN25-GA*	25 (7.6)	Bare Leads

*Indicates new part

Indoor Rated Sensors

Part No. Type-J Sensor	Part No. Type-K Sensor	Part No. PT100 RTD Sensor	Length ft (m)	Connector Type
TAJN05-AA*	TAKN05-DA	—	5 (1.5)	Mini
TAJN10-AA*	TAKN10-DA	—	10 (3.0)	Mini
TAJN25-AA*	TAKN25-DA	—	25 (7.6)	Mini
TAJN05-GA*	TAKN05-GA*	—	5 (1.5)	Bare Leads
TAJN10-GA*	TAKN10-GA*	—	10 (3.0)	Bare Leads
TAJN25-GA*	TAKN25-GA*	—	25 (7.6)	Bare Leads
TAJN05-BA-ROHS**	—	—	5 (1.5)	Standard
—	TAKN05-EA-ROHS**	—	5 (1.5)	Standard
—	—	THRN05-JA-ROHS**	5 (1.5)	Standard

** Materials are RoHS compliant

Accessories

Part No.	Description
PSAT36A	Standard Fiberglass Tape Suitable for General Purpose Applications Size: 0.5 in x 108 ft (13 mm x 38 m) Silicone Adhesive Temp Limit: 392°F (200°C)
AAT2180	High Temperature Aluminum Tape Designed for applications above 392°F (200°C) Size: 2 in x 180 ft (51 mm x 55 m) Silicone Adhesive w/ Liner Temp Limit: 500°F (260°C)



Heat Conductive Putty

Used to fill voids between cable and pipe surface

Part No.	Description
HCP1	Size: 1 lb (0.5 kg)
HCP3	Size: 3 lb (1.4 kg)

