

TC45 Cut to Length Thermocouple Sensor



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TC45 series thermocouple sensors are designed to be used as a fast, temporary replacement for an existing failed thermocouple. This model is ideal for applications where down-time must be kept to a minimum. These thermocouples have a low-cost advantage as they can be supplied in predetermined lengths and then cut to suit the application as required. This reduces the necessity for stocking multiple lengths of thermocouples.

Cut to length thermocouples are primarily designed as a temporary replacement for a failed sensor installed within a thermowell assembly. It is recommended that this style of thermocouple be used as a temporary fix until a permanent replacement is supplied.

Applications:

TC45 series sensors are suitable for most industrial and commercial applications including:

- Automotive industries
- Chemical and petrochemical industries
- Energy and power plant technology
- Heating, ventilation, air-conditioning
- Machinery, plant and tank measurement
- Plastics and rubber industries
- Power and utilities
- Pulp and paper
- Water and wastewater treatment

Features:

- Fast delivery and a low cost solution when minimum downtime of the process is essential.
- The thermocouple sensor is supplied with 316/316L stainless steel sheath material.
- Sensor diameters are available in 3/16 & 1/4 inch and 4 & 6 mm.
- Temperature range of the sensor is -50 to +250 °C for Teflon® insulated lead wire and -50 to +450 °C for fibreglass lead wire.
- When selected, the stainless steel tubing extension can be attached to the thermocouple using a roll-crimp or supplied separately.
- A fibreglass jacket is available for situations where vibration is present or extra protection for the sensor is required.



TC45 - Cut to Length Thermocouple Sensor

Sensor Element:	<ul style="list-style-type: none"> ■ Type K (NiCr-Ni), ■ Type J (Fe-CuNi), ■ Type E (NiCr-CuNi), ■ Type N (NiCrSi-NiSi), ■ Type T (Cu-CuNi)
Temperature range:	-50 °C to +450 °C (depending upon element)
Number of sensors:	■ 2-wire single circuit
Classification tolerance:	<ul style="list-style-type: none"> ■ Class 2 and class 1 per DIN EN 60584 ■ ISA standard and special to ANSI MC96.1-1982
Measuring point:	Ungrounded or grounded
Tip Construction:	General purpose
Sheath material:	Stainless steel 316 / 316L
Termination:	Stripped leads
Options:	<ul style="list-style-type: none"> ■ Lengths and diameters standard or customer specific ■ Calibration - single point and multiple points ■ Material traceability of the thermocouple alloys, metal sheath and mineral insulation ■ Selectable accuracy tolerance

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