

TCA THERMOCOUPLE SENSORS

Temperature Controls are able to manufacture Thermocouple sensors to suit your application. Our scope of MIMs (Mineral Insulated Metal Sheath) thermocouples range from 0.5mm dia to 12.7mm dia with heavy wall, We keep extensive stocks of single, duplex, triplex conductor configurations with stainless steel and high nickel alloy sheath material. We can also manufacture plastic industry sensors to order and thermocouple wire cut to length and junctioned by TIG welding.

Standard Assemblies have insulated junctions; bonded or exposed junctions on request.

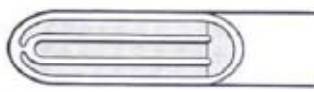
SD 1457

Exposed



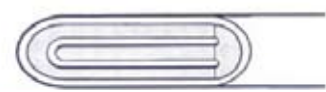
Fastest Response, recommended for Air Temperature.

Grounded



Fast Response, rapid transfer of heat to junction. Not suited to non isolated transmitters or Data Loggers.

Insulated



Normal Response, Insulation resistance, typically 500V DC > 100M Ohm. Prevents stray voltage affecting measuring signal.

Cold end terminations include:

Mini Plug



Stainless Steel Armour



Threaded Pot Seal



Spring loaded Din Terminal block



Hot end terminations include:

Weld on Stainless Steel Pad



Mims

Weld on Stainless Steel Solid Tip



Mims

Hose Clamp fitted to Tip



Washer fitted to Tip

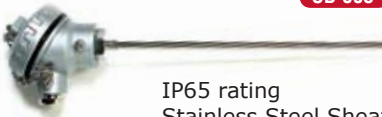


Precious Metal Thermocouples. Temperature Controls produce Thermocouples for high temperature furnace use above 1200 deg C using Platinum / Rhodium conductors Types R, S & B. These thermocouples are subject to market variations in price and need to be quoted on application. As a service to customers Temperature Controls accepts the return of Platinum thermocouple wire for salvage of the material and credits the value to the customer.

TCA STOCK THERMOCOUPLES

Small Aluminium Head

Model TC01
SD 003



IP65 rating
Stainless Steel Sheath

MODEL	CALIBRATION	SHEATH DIA	LENGTH mm	PRICE
TC01K010060	K	6.0	100	\$
TC01K015060	K	6.0	150	\$
TC01K020060	K	6.0	200	\$
TC01K030060	K	6.0	300	\$
TC01J010060	J	6.0	100	\$
TC01J015060	J	6.0	150	\$
TC01J020060	J	6.0	200	\$
TC01J030060	J	6.0	300	\$

MIMS Thermocouple Large Plug

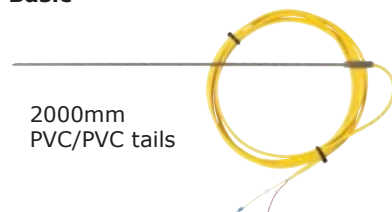
Model TC07
SD 051



MODEL	CALIBRATION	SHEATH DIA	LENGTH mm	PRICE
TC07K030060	K	6.0	300	\$
TC07K060060	K	6.0	600	\$
TC07K0100060	K	6.0	1000	\$

MIMS Thermocouple Basic

Model TC05
SD 050



2000mm
PVC/PVC tails

MODEL	CALIBRATION	SHEATH DIA	LENGTH mm	PRICE
TC05K015030	K	3.0	150	\$
TC05K030030	K	3.0	300	\$
TC05K015060	K	6.0	150	\$
TC05K030060	K	6.0	300	\$

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THERMOCOUPLE PROJECT STYLES

Temperature Controls supply specialised sensors for Refinery, Chemical, Brick and Cement manufacturing.

Some examples are:



SD 012

Nipple Connection

- Offers Spring Loading or welded stem
- Provides fast response in thermowell or process



SD 017

Nipple/Union/Nipple NUN Connection

- Offers Spring Loading
- Ability to remove probe without disconnecting wiring.



SD 020

Pipe Nipple Extension PNE

- Offers Spring Loading
- Lagging extension so head termination is removed from heat source.



SD 018

Ceramic Furnace Probe CFP

- Ceramic sheath over Thermocouple Element.
- Lagging extension so head termination is removed from heat source.
- Suitable for use to 1800°C



SD 176

Metal Protection Probe MPP

- High Nickel Alloy Protection Sheath Over Element
- Strong - not easily broken.
- Inconel 600/601, 316, 446, 253 MA Stainless Steels

TCA STOCK PLASTIC INDUSTRY SENSORS

YM3 Plastic Industry
c/w BF4 1/8"
BSP adaptor

SD 006



SD 005

TC09 Barrel
Melt Assembly



TC08 Single Pin
1/8" BSP Adaptor



MODEL	CALIBRATION	SHEATH DIA	LENGTH mm	PRICE
TC08K1000	K	4.5	1000	\$
TC08K1500	K	4.5	1500	\$
TC08K2000	K	4.5	2000	\$
TC08K3000	K	4.5	3000	\$
TC08K4000	K	4.5	4000	\$
TC08K6000	K	4.5	6000	\$
TC08J1000	J	4.5	1000	\$
TC08J1500	J	4.5	1500	\$
TC08J2000	J	4.5	2000	\$
TC08J3000	J	4.5	3000	\$
TC08J4000	J	4.5	4000	\$
TC08J6000	J	4.5	6000	\$

Custom made plastic Industry sensors available with insulated junctions or plugs fitted

MODEL	CALIBRATION	SHEATH DIA	LENGTH mm	PRICE
TC09K0075	K	3.0	75	\$
TC09K0150	K	3.0	150	\$
TC09J0075	J	3.0	75	\$
TC09J0150	J	3.0	150	\$

MODEL	LENGTH mm	PRICE
TC08BF4	29mm	\$
TC08BF6	50mm	\$
TC08BF8	75mm	\$