

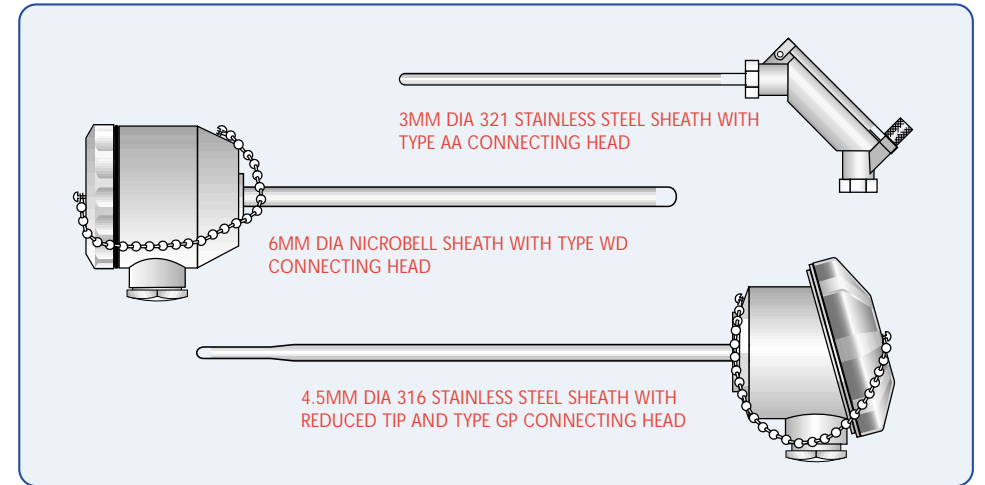
# Thermocouples TC MI CH

The TC MI CH Range of Thermocouples comprises a series of Mineral Insulated probes complete with terminal heads. A variety of connecting heads provide a convenient method of termination for connecting cables and offer a choice of styles, terminal access and cable entry.

An indication of suitable sheath materials/applications is given below.

- 316 Stainless Steel** Excellent corrosion resistance often specified for food and medical applications.
- 321 Stainless Steel** Good corrosion resistance and high ductility. Widely used in industry.
- 310 Stainless Steel** Good corrosion resistance at high temperatures and recommended for use in sulphurous atmospheres.
- 600 Inconel Alloy** Good resistance to oxidation and extremely corrosive atmospheres at high temperature. Not recommended for use in sulphurous atmospheres.
- Nicrobell** Recommended for use with type N conductors. Nicrobell is a Ni/Ch/Si alloy that is suitable for use in reducing, oxidising and vacuum atmospheres.

*These sensors are supplied, as standard, to Thermocouple Class 1 providing greater accuracy.*



*The order code information below is shown as a guide to specifying the probe. Please contact our sales office if any features that you require are not shown.*

**ORDER CODE**  
TC MI CH - E - J - SM --- D -- SL --- CH -- F --

CALIBRATION TYPE	
K	
J	
T	
N	

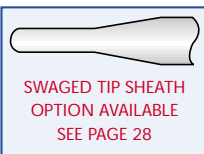
ELEMENTS	
Type	Code
Single	S
Duplex	D

JUNCTION TYPE	
Type	Code
Insulated	I
Grounded	G

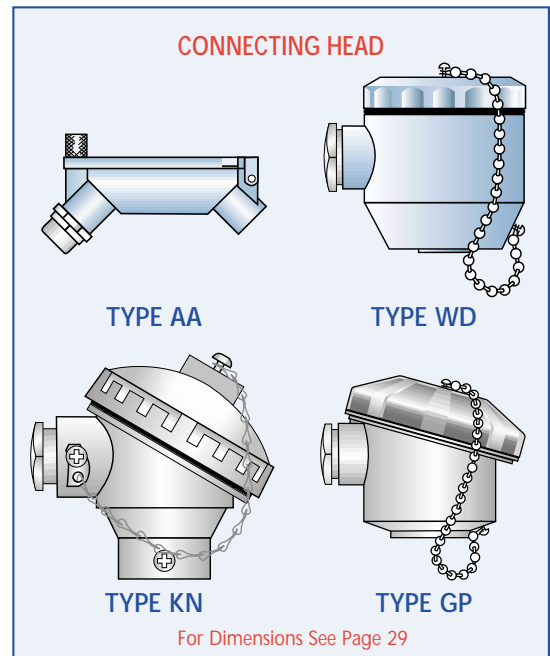
SHEATH MATERIAL & TEMPERATURE		
Type	Max Temp °C	Code
316 St/St	800	316
321 St/St	800	321
310 St/St	1100	310
INC 600	1100	600
Nicrobell	1250	NBI

SHEATH DIAMETER	
Size	Code
3.00mm	30
4.50mm	45
6.00mm	60
8.00mm	80

SHEATH LENGTH	
Size	Code
100mm	100
150mm	150
200mm	200
250mm	250
300mm	300
350mm	350
400mm	400
450mm	450
500mm	500



CONNECTING HEAD	
Description	Code
Angled Alloy Connecting Head with hinged lid. Sealed to IP54	AA
Die Cast Aluminium Connecting Head with screw on cap with 'O' Ring Seal Sealed to IP67.	WD
Die Cast Angled Screw Cap with 'O' Ring Seal. Sealed to IP67.	KN
Glass reinforced Polymer Terminal Head with compression seal & angled cap Sealed to IP68.	GP



*The connecting head houses a ceramic or moulded block with terminals of thermocouple material to maintain accuracy of sensor calibration.*

FITTINGS		
Size/Code	St/St	Brass
No fitting	F0	F0
1/8" BSPT	F1	F7
1/8" BSP	F2	F8
1/4" BSPT	F3	F9
1/4" BSP	F4	F10
1/2" BSPT	F5	F11
1/2" BSP	F6	F12

Flange 50mm dia	Code
St/St	F13
Aluminium	F14

Flange fixing holes 3x4mm on 40 mm PCD