



- Reference standard :- IEC - 584.2

APPLICATIONS:

- Air & flue gas service in power plant application, general industry application, Furnace temp. measurement etc.

HOW TO ORDER

Code	Thermocouple Type
MI	Mineral Insulated Metal Sheathed
BE	TC Element With Ceramic Insulators (Beaded Element)

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Code	No. Of Elements
1	Simplex
2	Duplex
3	Triplex

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Code	Accuracy
CL1	Class 1 as per IEC - 584.2
CL2	Class 2 as per IEC - 584.2

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Code	Element Type
J	Iron-Constantan
K	Chromel-Alumel
T	Copper-Constantan
E	Chromel-Constantan
R	Plat. 13% Rhod. - Plat.
S	Plat. 10% Rhod. - Plat.
B	Plat. 6% Rhod. - Plat. 30% Rhod.
N	Nicrosil - Nisil

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Code	Hot Junction Type
G	Grounded Junction
UG	Ungrounded Junction

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SPECIAL FEATURES:

- Mineral insulation/ Beaded type
- Available in all standard sheath diameters and sheath materials
- Protecting tube size & material will be as per customer's requirement.
- Mineral insulation enables flexibility and durability.
- Enclosures in all material - Die cast Aluminium / Cast Iron / SS 304 / SS 316
- Enclosures in all categories (Weatherproof, IP-65 to IP-68, Flameproof Gr. IIA IIB and Explosionproof Gr. IIA, IIB, IIC for H_s service application.)

STANDARD PRODUCT DETAILS

Thermocouple Type	- Mineral Insulated Metal Sheathed
No. Of Elements	- Simplex
Accuracy	- Class 2 as per IEC - 584.2
Element Type	- Chromel - Alumel
Hot Junction Type	- Ungrounded Junction
Sheath Diameter for Mineral insulated Thermocouple	- 6.0 mm
Sheath Material	- SS 316
Terminal Head Type	- Screwed type, weatherproof, IP-65 in die-cast Aluminium
No. Of Conduit Entry/Entries	- One
Conduit Entry Size	- 3/4" ET(F)
Head Extension type	- Head Only
Protecting Tube Material	- SS 316
Protecting Tube Size	- 1/2" SCH.40
Flange Material	- A182 F316
Flange Type / Size	- Adjustable Flange(1.5"150#RF)
Total / Insertion Length	- L = 300 mm
Extension Length "T"mm	- Not Applicable
Extension Length "N"mm	- Not Applicable
Option Description	- S.C. cable gland in nickel plated Brass

Code	Sheath Diameter For MI. Thermocouple	Code	Wire Diameter For Beaded Element
3	3.0 mm	24 A	24 AWG
4.5	4.5 mm	20 A	20 AWG
6	6.0 mm	18 A	18 AWG
8	8.0 mm	16 A	16 AWG
10	10.0 mm	14 A	14 AWG
12	12.0 mm	8 A	8 AWG

Consult factory for other size.

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Code	Protecting Tube		
	Size	OD in mm	Thickness in mm
J07	10x7	10	1.5
J09	12x9	12	1.5
M40	3/8"Sch.40	17.15	2.31
M80	3/8"Sch.80	17.15	3.20
N40	1/2"Sch.40	21.30	2.77
N80	1/2"Sch.40	21.30	3.74
P40	3/4"Sch.40	26.70	2.87
P80	3/4"Sch.80	26.70	3.91

Other, Please Specify

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Code	Sheath Material
310	SS 310
316	SS 316
INC.6	Inconel 600
INC.8	Inconel 800
X	None

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Code	Flange Material
A105	ASTM105 (CS)
F304	A182 F304
F316	A182 F316

Consult factory for other material.

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Code	Terminal Head Type
SWP	Screwed type, weatherproof, IP-65 in die-cast Aluminium
Sw7	Screwed type, weatherproof, IP-67 in die-cast Aluminium
SFP	Screwed type, flamerproof Gr. IIA IIB in die-cast Aluminium
SEP	Screwed type, explosionproof Gr.IIC in die-cast Aluminium
HWP	Hinged type, weatherproof, IP-65 in die-cast Aluminium
JWP	Junction box, weatherproof, IP-65 in die-cast Aluminium
JFP	Junction box, flamerproof Gr. IIA IIB in die-cast Aluminium
JEP	Junction box, explosionproof Gr.IIC in die-cast Aluminium
BWP	Weatherproof Head, IP-65 in die-cast Aluminium with cover fitted with two screws.

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Code	Flange Type / Size
FF	Fixed Flange (Specify Size)
AF	Adjustable Flange (Specify Size)

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Code	Total / Insertion Length
L	Specify in mm.
IL	Specify in mm.

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Code	Extension Length "T"mm
T	Specify in mm.
X	Not Applicable

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Code	No. Of Conduit Entry/Entries
1	One
2	Two
	Other, Please Specify

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Code	Head Extension Length "N"mm
N	Specify in mm.
X	Not Applicable

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Code	Conduit Entry Size
A	3/4" ET(F)
B	1/2"NPT(F)
C	3/4"NPT(F)
	Other, Please Specify

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Code	Option Description
0	None
3	Terminal head in SS 304
4	Terminal head in SS 316
5	Terminal head in Cast Iron
6	S.C. cable gland in nickel plated brass
7	D.C. cable gland in nickel plated brass
8	S.C. cable gland in SS 304
9	D.C. cable gland in SS 304
11	S.C. cable gland in SS 316
12	D.C. cable gland in SS 316
13	Head mounted temp. transmitter
14	S.S. base plate suitable for Temperature Transmitter mounting
16	Head Extension in SS 304.
17	Head Extension in SS 316.
20	Plug for conduit entry in Carbon Steel [ASTM A105]
21	Plug for conduit entry in SS 304
22	Plug for conduit entry in SS 316
23	Plug for conduit entry in Aluminium
PW	Five Point Factory Calibration Certificate
SX	SS Tag Plate

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Code	Head Extension type
X	Head Only
NU	Head With Nipple & Union in Cd plated CS

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Code	Protecting Tube Material
304	SS 304
310	SS 310
316	SS 316
446	SS 446
INC.6	Inconel 600
INC.8	Inconel 800

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- Note :**
- When selecting option "PW", please also specify measuring temperature range.(For e.g. 0/300°C)
 - Explanations of Abbreviations used:
 SC = Single Compression
 DC = Double Compression
 SS = Stainless Steel

(Ordering Example)

TC 16 Series

MI	1	CL2	K	UG	6	316	SWP	1	A	X	316	N40	F316	AF(1.5"150#RF)	L=300	X
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
X	6															
18	19															