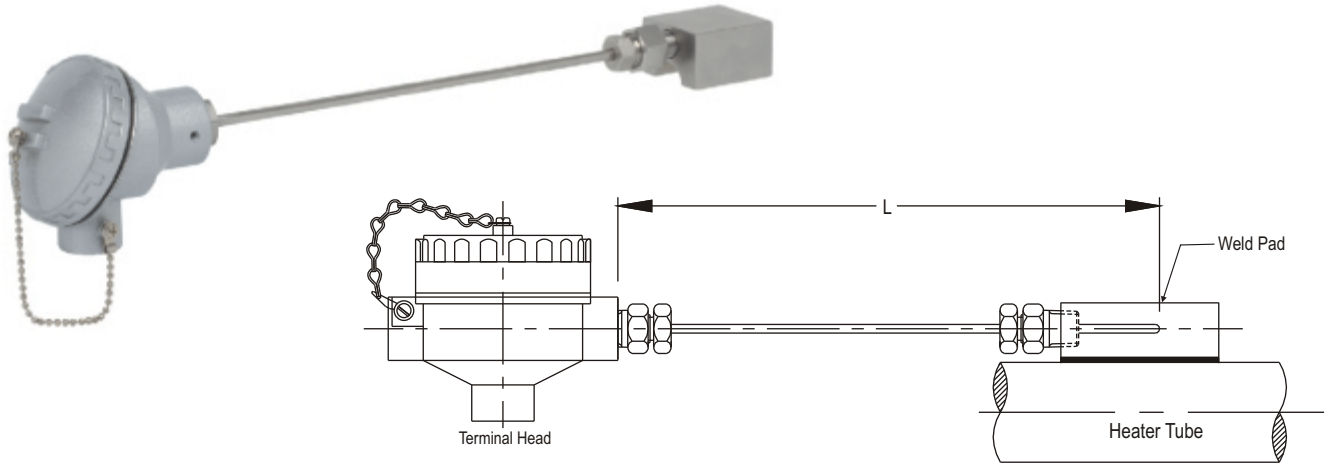
TC15

Thermocouple Assembly With Weld Pad



Reference standard :- **IEC - 584.2**

SPECIAL FEATURES:

- Mineral insulation.
- Spring loaded design for positive contact.
- Available in all sheath diameters and sheath material.
- Mineral insulation enables Thermocouples to be used at high temperature.
- 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_2 Service application.

APPLICATIONS:

- This design is specifically used to measure skin temperature of heater tube or flat surface. Our Thermocouple Assembly will be with weld pad which will be directly welded on heater tube or flat surface. Curvature to weld pad will be provided as required by customer. Typical applications are measurement of surface temperature of refractory lined vessels, columns, reactors in petrochemical plants and oil refineries and pipelines.

STANDARD PRODUCT DETAILS

No of Elements	-	Simplex
Element Type	-	Chromel-Alumel
Accuracy	-	Class 2 as per IEC - 584.2
Hot Junction Type	-	Ungrounded Junction
Sheath Diameter	-	6.0 mm
Sheath Material	-	SS 316
Terminal Head Type	-	Screwed type, weatherproof, IP-65 in die-cast Alumunium
No. Of Conduit Entries	-	One
Conduit Entry Size	-	3/4" ET(F)
Mounting Type	-	Bracket Mounting For Head
Weld Pad Size	-	25x25x50 mm
Weld Pad Material	-	SS316
Total Length"L"mm	-	3000 mm
Option Description	-	S.C. cable gland in Nickel plated brass

HOW TO ORDER

Code	No. Of Elements
1	Simplex
2	Duplex
3	Triplex

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Code	Element
J	Iron-Constantan
K	Chromel-Alumel

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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	Hot Junction Type
G	Grounded Junction
UG	Ungrounded Junction

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Code	Sheath Diameter
3	3.0 mm
4.5	4.5 mm
6	6.0 mm
8	8.0 mm
Consult factory for other size.	

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Notes : • Drawings are not to scale. • All Dimensions are in mm.

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Code	Sheath Material
310	SS 310
316	SS 316
INC.6	Inconel 600
INC.8	Incolloy 800

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

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

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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	Mounting Type
S	Surface Mounting For Junction Box
B	Bracket Mounting For Head
P	2"NB Pipe Mounting Bracket
L	Local Mounting Without Bracket

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Code	Weld Pad Size
1	25x25x50 mm
2	25x25x100 mm
3	50x50x100 mm
	Other, Please Specify

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Code	Weld Pad Material
304	SS 304
310	SS 310
316	SS 316
446	SS 446
INC.6	Inconel 600

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Code	Total Length "L"mm
	Specify in mm.

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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
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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Note :

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

(Ordering Example)

TC 15 Series	1	K	CL2	UG	6	316	SWP	1	A	B	1	316	3000	6
	1	2	3	4	5	6	7	8	9	10	11	12	13	14