excel INSTRUMENTS

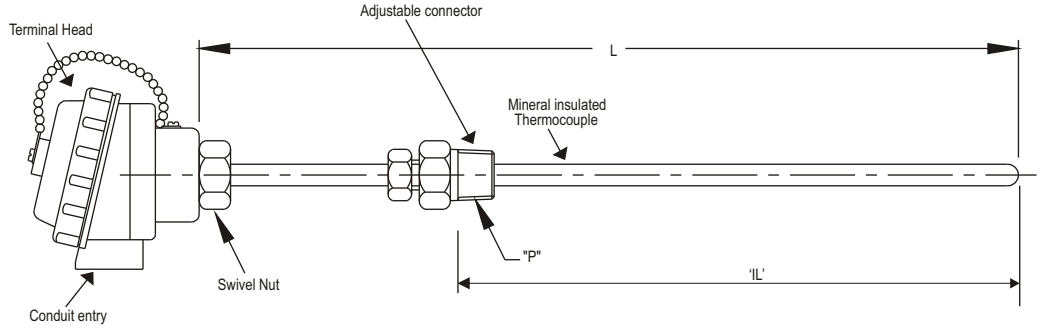
Ensuring accuracy and performance

TC02

Thermocouple Assembly With Adjustable Threaded Connection

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 / 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.



- Reference standard :- **IEC - 584.2**

HOW TO ORDER

Code	No. Of Elements
1	Simplex
2	Duplex
3	Triplex

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Code	Element Type
J	Iron-Constantan
K	Chromel-Alumel
T	Coppe-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	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	4.0 mm
5	5.0 mm
6	6.0 mm
8	8.0 mm
10	10.0 mm
Consult factory for other diameter.	

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APPLICATIONS:

Such design is generally used in all industries, machinery manufactures, bearing temperature measurement etc. where space is limited.

STANDARD PRODUCT DETAILS

No of Elements	-	Simplex
Element Type	-	Chromel-Alumel (K Type)
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 / 67 in die-cast Alumunium
No. Of Conduit Entries	-	One
Conduit Entry Size	-	½" NPT (F)
Head Extension Type	-	Fixed Threaded Connection
Immersion Length"L"mm	-	300 mm
Process Connection"P"	-	½"NPT(M) Adjustable
Option Description	-	S.C. cable gland in Nickel plated brass

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

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Thermocouple Assembly With Adjustable Threaded Connection

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

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Code	Terminal Head Type
SW5	Screwed type, weatherproof, IP-65 in die-cast Alumunium
SW7	Screwed type, weatherproof, IP-67 in die-cast Alumunium
SFP	Screwed type, flameproof Gr. IIA IIB in die-cast Alumunium
SEP	Screwed type, explosionproof Gr.IIC in die-cast Alumunium
HWP	Hinged type, weatherproof, IP-65 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
	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	Head Extension Type
FC	Fixed Threaded Connection

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Code	Immersion Length'IL'/Element Length "L"mm
	Specify in mm.

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Code	Process connection "P"
A	½"NPT(M)
B	½"BSP(M)
C	3/4"NPT(M)
D	3/4"BSP(M)
	Other, Please Specify

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Code	Option Description
0	None
3	Terminal head in SS 304
4	Terminal head in SS 316
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 temperature 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	Factory Calibration Certificate
SX	SS Tag Plate
TC	Teflon Coating on Sheath

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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 01	1	K	CL2	UG	6	316	SWP	1	B	FC	300	A	6
	1	2	3	4	5	6	7	8	9	10	11	12	13