

Applications:

- Chemical and petrochemical industry
- Measurement of temperature layerings or hotspots in reactors
- Licenser-specific design

Special features:

- Versions to customer specification
- Secondary containment option
- Exchangeable measuring inserts
- Anchored support

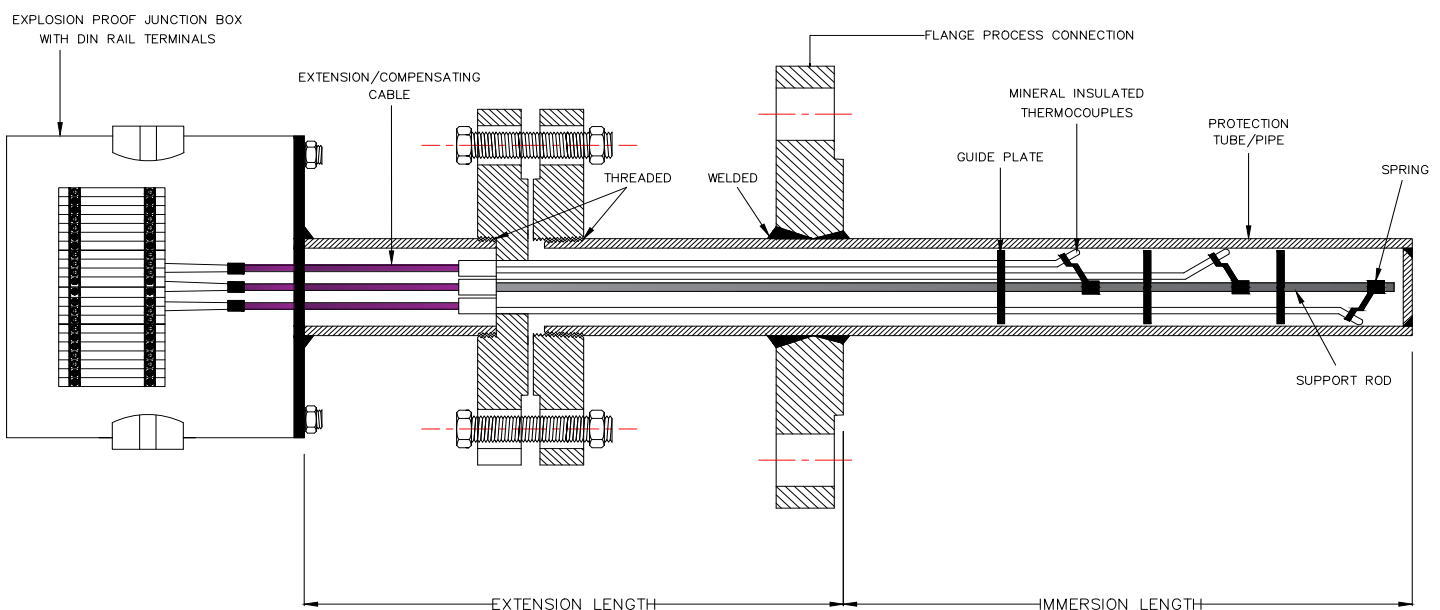
Description:

Multipoint thermocouples are often used for measuring temperature profiles in reactors or fuel depots or for the detection of the so-called “ hotspots ” .

The so-called multipoint thermocouple T-Bar design is common for certain vessel designs. In this design, several exchangeable thermocouples are linearly arranged in a T-Bar/pipe design.

The thermocouples are replaceable within the protection tube/flanged primary pressure containment. This design can be provided with a secondary containment option and various neck extensions to suit customer requirements. Connection terminals or temperature transmitters are placed in the connection housing which is either a component of the multipoint thermocouple or can be mounted separately, e.g. on a wall or pipeline.

Dimensions:



Please consult factory for full specification/ Data sheet.

Ordering Information for (AM-TE09 series)

Model	Product Description		
AM-TE09	Multi-point Thermocouple sensor		
Code(1)	Junction box type	Explosion Proof	
1	Explosion Proof Aluminum Head	Eex d IIB T4 / T6	
2	General Aluminum Head	None(IP65)	
3	General Stainless Steel Head	None(IP65)	
4	Others		
Code(2)	Element Type	Thermocouple Wire Alloys	Tempearture Range
B	Thermocouple "B"	Pt Rh30 / Pt Rh6	200 ~ 1700°C
R	Thermocouple "R"	Pt Rh13 / Pt	0 ~ 1600°C
S	Thermocouple "S"	Pt Rh10 / Pt	0 ~ 1600°C
K	Thermocouple "K"	Chromel / Alumel	-200 ~ 1200°C
E	Thermocouple "E"	Chromel / Constantan	-200 ~ 800°C
J	Thermocouple "J"	Iron / Constantan	0 ~ 750°C
T	Thermocouple "T"	Copper / Constantan	-200 ~ 350°C
Code(3)	Conduit hub		
S	Single		
D	Dual		
Code(4)	Conduit Connection		
A	3/4"PF		
B	3/4"PT		
C	3/4"NPT		
D	1"PF		
E	1"PT		
F	1"NPT		
G	1+1/2"PF		
H	1+1/2"PT		
I	1+1/2"NPT		
Code(5)	Design		
1	Free hanging type(2-12 measuring point, assembled length 20 meter max.)		
2	Multi-guide Plug type(2-10 measuring point, assembled length 20 meter max.)		
3	Spring loaded type(2-10 measuring point, assembled length 20 meter max.)		
4	Swaged-in type(3-20 measuring point, assembled length 30 meter max.)		
5	Others		
Code(6)	Tip shape		
G	Grounded tip		
U	Ungrounded tip		
Code(7)	Sheath Outer Diameter		
16	1.6mm		
32	3.2mm		
48	4.8mm		
64	6.4mm		
80	8.0mm		

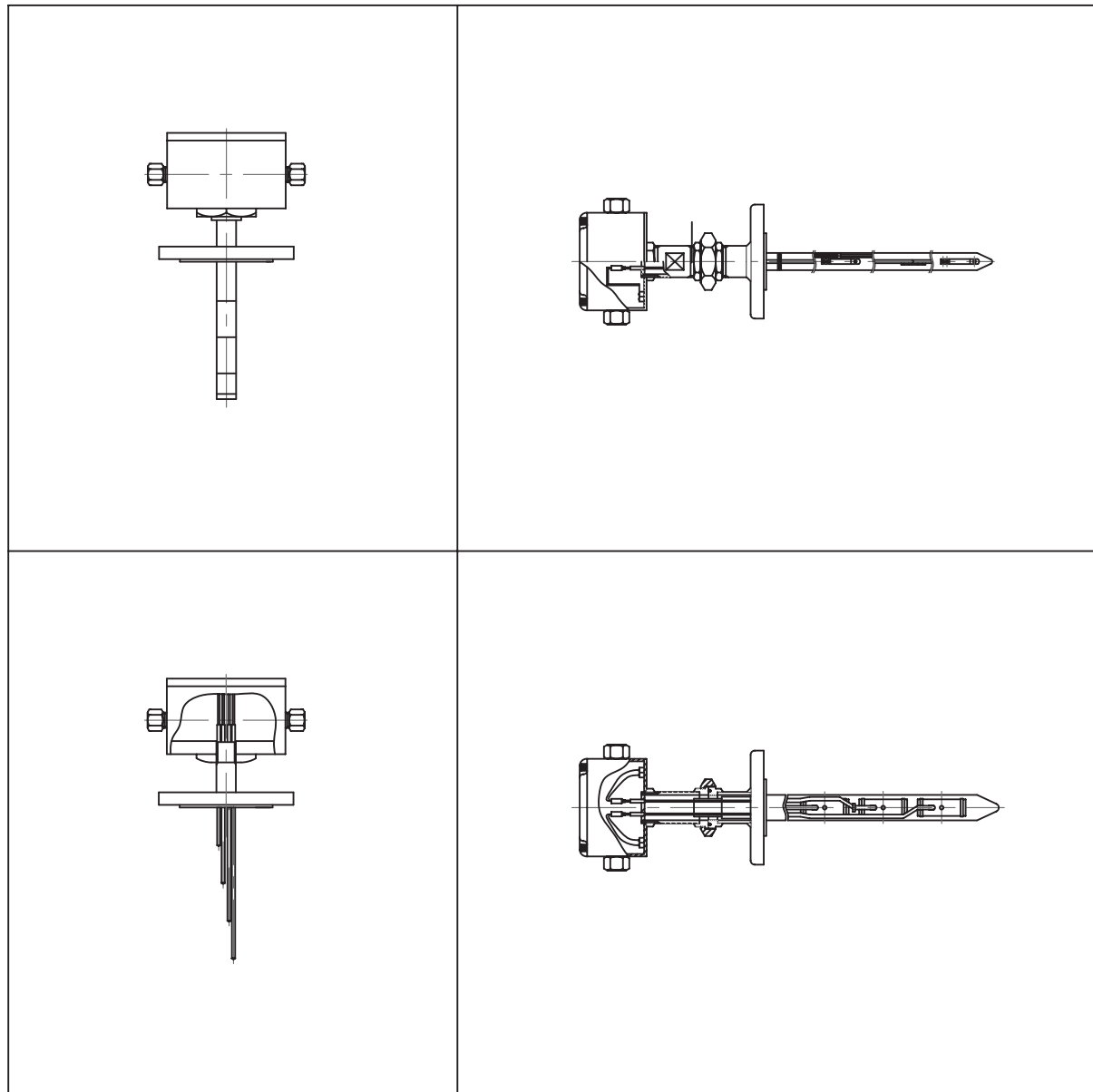
Please consult factory for full specification/ Data sheet.

Code(8)	Sheath Material	
B	316SS	
C	INCONEL 600	
D	310SS	
E	446SS	
F	347SS	
G	321SS	
X	Others	
Code(9)	Extension Type	Length(mm)
10	Pipe nipple	150
19	Pipe nipple	others
23	Nipple, Union & Nipple Thread	200
29	Nipple, Union & Nipple Thread	others
39	Nipple, Seal & Support plate with Flange assembly	Later
ZZ	Others	
Code(10)	Process Connection Size	Material
ZZ	None	None
H4	1"	316 SS
H5	1 1/2"	316 SS
M6	2"	316 SS
M7	3"	316 SS
X	Others	
Code(11)	Process connection Type	
0	None	
2	PT	
4	NPT	
F01	ANSI 150# RF	
F02	ANSI 150# FF	
F03	ANSI 300# RF	
F04	ANSI 300# FF	
F05	ANSI 600# RF	
F99	Others	
Code(12)	Lead wire diameter	
00	MFR'S standard	
33	0.18mm(AWG 33)	
30	0.25mm(AWG 30)	
24	0.51mm(AWG 24)	
21	0.72mm(AWG 21)	
18	1.02mm(AWG 18)	
16	1.27mm(AWG 16)	

Please consult factory for full specification/ Data sheet.

XX	Others
Code(13)	Thermowell Pipe size
-	None
1A	3/4" SCH 80
2A	1" SCH 80
3A	1+1/2" SCH 80
4A	2" SCH 80
XX	Others
Code(14)	"U" - Pipe Insert length(mm)
0000	None
4000	4000mm
ZZZZ	Others
Code(15)	Measuring point(mm)
P2	2-Point (P1: , P2:)
P3	3-Point (P1: , P2: , P3:)
P4	4-Point (P1: , P2: , P3: , P4:)
P6	6-Point (P1: , P2: , P3: , P4: , P5: , P6:)
P10	10-Point (P1: , P2: , P3: , P4: , P5: , P6: , etc.)
P12	12-Point (P1: , P2: , P3: , P4: , P5: , P6: , P7: etc.)
ZZ	Others
Code(16)	Tolerance Grade
A0	ANSI Grade(STD)
A1	ASTM Grade(STD)
A2	IEC Grade(STD)
A3	ANSI Grade(SP)
Code(17)	Calibrate certifications
N	Not apply
T1	Test Report byManufacturer
Code(18)	Accessory Options
0	Not apply
1	Pressure tap(NPT)
X	Others
Sample ordering code : Multi-Thermocouple;	
TE091KS1G64B23H5F02331A3000P2K3T1	

MULTI-POINT THERMOCOUPLE (AM-TE09 Series)



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