

Applications:

- Machine building, plant and vessel construction
- Energy and power plant technology
- Chemical industry
- Food and beverage industry
- Sanitary, heating and air-conditioning technology

Special features:

- Sensor ranges from -200 ... +1,200 °C
[-328 ... +2,192 °F]
- With integrated protection tube
- Spring-loaded measuring insert (replaceable)
- Explosion-protected versions are available for many approval types

Description:

Thermocouples of this model series are designed for screw-fitting directly into the process, mainly in vessels and pipelines. These thermometers are suitable for liquid and gaseous media under moderate mechanical load and normal chemical load.

The protection tube is fully welded and screwed into the connection head. The interchangeable measuring insert can be removed without taking out the complete probe from the plant. This enables inspection, measuring equipment monitoring or, when servicing is necessary, replacement while the plant is running.

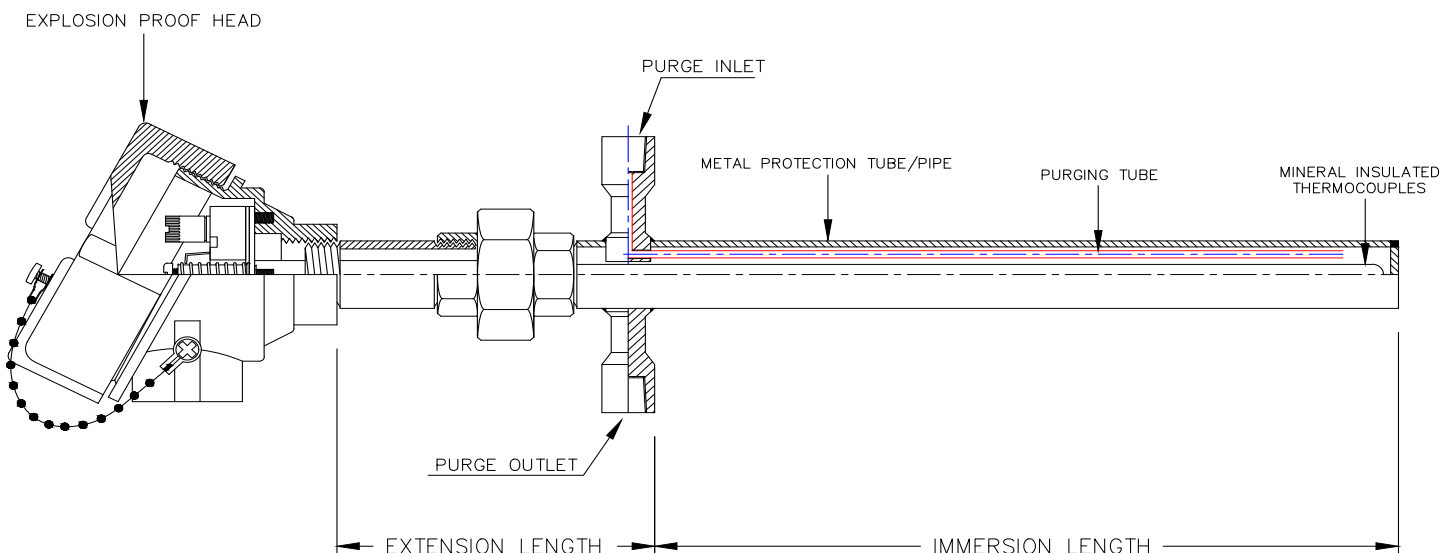
The choice of standard lengths assists with short delivery times and the possibility of stocking spare parts.

Insertion length, process connection, protection tube design, connection head, type and number of sensors and accuracy can each be selected to suit the respective application. A large number of different explosion protection certificates are available for the TE-04.

On request, we can mount analogue or digital transmitters in the connection head of the TE-04.



Dimensions:



Please consult factory for full specification/ Data sheet.

Ordering Information for AM-TE04 Series

Model	Product Description		
AM-TE04	Metallic Protection Tube Thermocouple Sensor		
Code(1)	Connection Head type	Explosion Proof	
1	Explosion Proof Aluminum Head (Dual Conduits)	Eex d IIC T5	
2	Explosion Proof Aluminum Head (Single Conduits)	Eex d IIB+H2 T6	
3	General Aluminum Head (Single Conduits)	None(IP65)	
4	General Stainless Steel Head (Single Conduits)	None(IP65)	
5	Sensor only with 150mm long TEFLON insulated lead wires		N/A
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
X	Others		
Code(3)	Terminal		
S	Single junction	T	Triple junction
D	Dual junction		
Code(4)	No. of Conductor wire		
2	2-wire		
4	2-wire duplex		
6	2-wire triplex		
Code(5)	Sensor type		
GG	General purpose style & Grounded tip		
GU	General purpose style & Ungrounded tip		
SG	Spring Loaded style & Grounded tip		
SU	Spring Loaded style & Ungrounded tip		
ES	Exposed style		
Code(6)	Extension Type	Length(mm)	
00	None		
10	Fixed Thread	None	
11	Fixed Thread	100	
13	Fixed Thread	150	
19	Fixed Thread	others	
23	Nipple Thread	100	
29	Nipple Thread	others	
33	Nipple, Union & Nipple Thread	150	
39	Nipple, Union & Nipple Thread	others	
43	Nipple & Flange Welded	100	
44	Nipple & Flange Welded	150	
49	Nipple & Flange Welded	others	
50	Compression Fitting	None	
60	Movable Thread	None	
61	Movable Flange	None	
73	Tube welded Flange	100	
74	None Metal Only Tube	None	

Please consult factory for full specification/ Data sheet.

75	None Metal Only Flange	100
76	Ring welded screwed	100
99	Others	
Code(7)	Sheath Material	
A	304SS	
B	316SS	
C	INCONEL 600	
D	310SS	
E	446SS	
F	347SS	
G	321SS	
X	Others	
Code(8)	Sheath Outer Diameter	
31	1.6mm	
32	3.2mm	
34	4.8mm	
36	6.4mm	
38	8.0mm	
Code(9)	Conduit Connection	
Z	None	
A	1/2"PF	
B	1/2"PT	
C	1/2"NPT	
D	3/4"PF	
E	3/4"PT	
F	3/4"NPT	
Code(10)	Process Connection Size	Material
ZZ	None	None
H3	1/2"	304 SS
H4	1"	304 SS
H5	1 1/2"	304 SS
H6	2"	304 SS
M3	1/2"	316 SS
M4	1"	316 SS
M5	1 1/2"	316 SS
M6	2"	316 SS
M7	3"	316 SS
X	Others	
Code(11)	Connection Type	
0	None	
2	PT	
3	PF	
4	NPT	
8	NPS	

Please consult factory for full specification/ Data sheet.

F01	ANSI 150# RF
F02	ANSI 150# FF
F03	ANSI 300# RF
F04	ANSI 300# FF
F05	ANSI 600# RF
9	Compression fitting connector
F99	Oth
Code(12)	Lead wire diameter
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)
14	1.63mm(AWG 14)
XX	Others
Code(13)	Sensor Immersion Length(L)
L0100	100mm
L0150	150mm
L0200	200mm
L0250	250mm
L0300	300mm
L0350	350mm
L0400	400mm
L0450	450mm
L0500	500mm
L0550	550mm
L0600	600mm
L0700	700mm
L0800	800mm
L0900	900mm
L1000	1000mm
XXXXX	Others
Code(14)	Tolerance Grade
A0	ANSI Grade(STD)
A1	ASTM Grade (STD)
A2	IEC (STD)
A3	ANSI Grade (SP)

Please consult factory for full specification/ Data sheet.

Code(15)	Calibrate certifications
N	Not apply
T1	Test Report by Manufacturer
Code(16)	Accessory Options
0	None
1	Thermowell
X	Others
Sample ordering code : Thermocouple; 1401SS2GU33B36AM34L0300A0T1	

Please consult factory for full specification/ Data sheet.