

Applications:

- Sulphur recovery units (SRU)
- Chemical, petrochemical industry
- Hot blast stove

Special features:

- Flushing connection to prolong the life of the thermocouple (selectable)
- Increased safety against escape of toxic media through double sealing system
- High variance of thermowell / protection tube materials
- Available with temperature transmitter or field transmitter
- High process safety with processes up to 1,800 °C [3,272 °F]

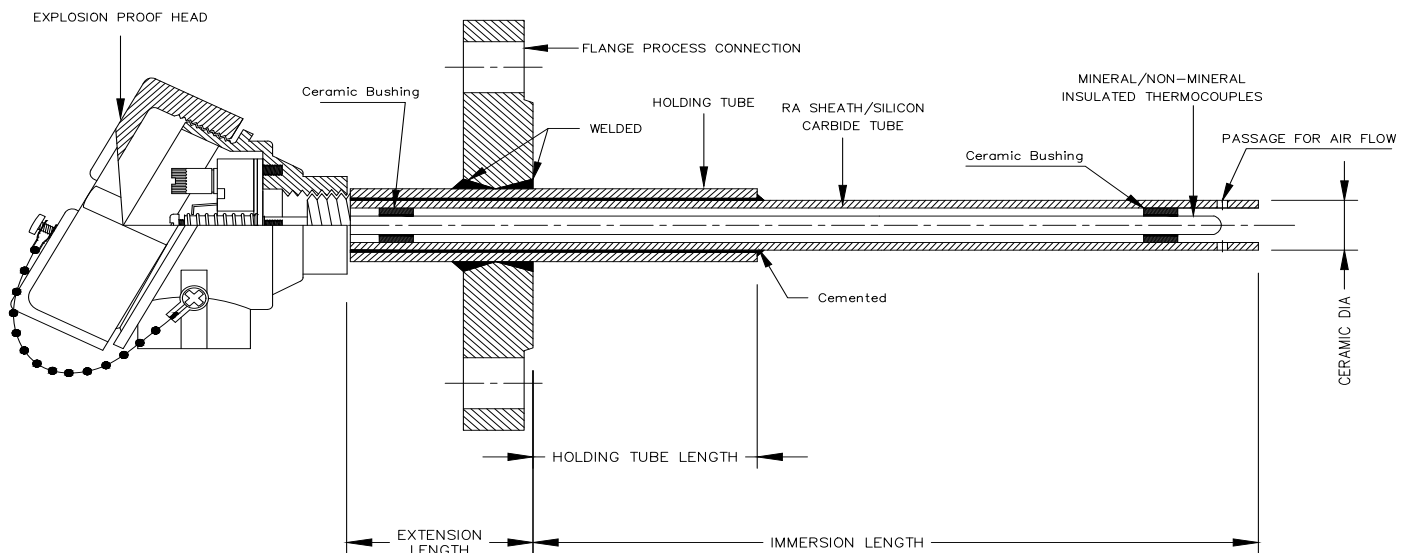
Description:

This high-temperature thermocouple has been specifically developed for use in hazardous applications. A protection tube made from high-temperature ceramic or silicon-carbide, with or without an additional inner tube, protects the thermocouple from the process medium as well as mechanical damage.

For particularly critical applications as e.g. sulphur recovery units, we offer designs with purge gas connection, to prevent the thermocouple by poisoning by the aggressive process atmosphere.

Hermetically sealed junctions prevent toxic gases from being able to escape the reactor. The high temperatures in the process place very high demands on protection tubes and thermocouples. These process conditions often lead to shutdowns and interruptions in operation. The special design of this Ex-approved high-temperature thermometer can significantly improve life expectancy of the thermocouple and reduce downtime.

Dimensions:



Please consult factory for full specification/ Data sheet.

Ordering Information for AM-TE08 Series

Model	Product Description		
AM-TE08	Non 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)	
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		
D	Dual junction		
Code(4)	Lead wire termination		
2	2-wire		
4	2-wire duplex		
6	2-wire triplex		
Code(5)	Construction		
05	Ceramic Protection tube type with Metal support and Slide flange		
06	Screwed-in Ceramic Protection tube type with Hex. Nipple		
07	Ceramic Protection tube type with Fixed flange		
08	Ceramic Protection tube type with Fixed flange on Metal support		
09	Dual Protection tube type Inner Ceramic and Outer Metal tube with Slide flange		
10	Screwed-in Dual Protection tube type Inner Ceramic and Outer Metal tube with Hex. Nipple		
11	Dual Protection tube type Inner Ceramic and Outer Metal tube with Fixed flange		
12	Dual Ceramic Protection tube type with Slide flange		
13	Screwed-in Dual Ceramic protection tube type with Hex. Metal support		
14	Dual Ceramic Protection tube type with Fixed flange		
15	Dual Ceramic Protection tube type with Fixed flange on Metal support		
Code(6)	Ceramic Protection tube Material		
A	PT-1(Mullite, 60% Alumina-40% Silica)		
B	PT-0(Recrystallized Alumina, 99.5% Alumina)		
X	Others		
Code(7)	Outside Metal jacket tube size		
0	None		
1	316SS, 1/2" Sch 40		
2	SANDVIK 253MA, 1/2" Sch 40		
3	316SS, 3/4" Sch 40		
4	SANDVIK 253MA, 3/4" Sch 40		
X	Others		
Code(8)	Outside protection tube size(O.D. x I.D.)		
0	None		

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F	13.0 x 9.0mm	
G	15.0 x 11.0mm	
H	17.0 x 13.0mm	
I	21.0 x 16.0mm	
J	25.0 x 20.0mm	
X	Others	
Code(9)	Inside protection tube size(O.D. x I.D.)	
0	None	
C	6.0 x 4.0mm	
D	8.0 x 5.0mm	
E	10.0 x 6.0mm	
X	Others	
Code(10)	Conduit Connection	
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(11)	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
X	Others	
Code(12)	Connection Type	
0	None	
2	PT	
3	PF	
4	NPT	
8	NPS	
F01	ANSI 150# RF	
F02	ANSI 150# FF	
F03	ANSI 300# RF	
F04	ANSI 300# FF	

Please consult factory for full specification/ Data sheet.

F99	Others
Code(13)	Element wire size
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)
11	2.3mm(AWG 11)
08	3.3mm(AWG 8)
XX	Others
Code(14)	Sensor Immersion Length(L)
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(15)	Tolerance Grade
A0	ANSI Grade(STD)
A1	ASTM Grade(STD)
A2	IEC Grade (STD)
A3	ANSI Grade(SP)
Code(16)	Calibrate certifications
N	Not apply
T1	Test Report by Manufacturer
Code(17)	Accessory Options
-	None
X	Others
Sample ordering code : Thermocouple;	
TE083K5208B1XXAM5F0133L0600K2T1	

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