

inert gas filled thermometers for remote readings all stainless steel construction DS 4", 6" (100-150 mm)



PED 2014/68/UE ATEX 2014/34/UE TP TC 012/2011

These instruments are designed for use in chemical and petrochemical processing industries, and in conventional power plants. They are built to resist the most severe operating conditions created by the ambient environment and the process medium. An TIG welded case/bulb and capillary strengthens the whole construction. A leak tight fit is ensured if the instrument is filled with a dampening fluid to prevent damage due to vibration.

6.TG8 - Standard Model

Designation: EN 13190.

Indication ranges: -320...+1200 °F (-200...+600 °C).

Measuring ranges: -280...+1100 °F (-170...+500 °C).

Accuracy class: 1 as per EN 13190, measuring range.

Overtemperature limit: 25% of full scale range for temperature ≤ 750 °F (400 °C); max 1100 °F (600 °C).

Ambient temperature: -40...+149 °F (0...+65 °C).

Max working pressure: 360 psi - 25 bar (without thermowell).

Protection degree: IP 55 as per EN 60529/IEC 529.

Process connection: AISI 316 st.st.

Stainless steel capillary: 1 - uncovered, ø 0.10" (2,5 mm);

9 - covered with stainless steel flexible armour, ø 0.24" (6 mm);

6 - covered with st.st. PVC coated flexible armour, ø 0.24" (6 mm).

Measuring element: inert gas filled expansion system.

Case: stainless steel.

Ring: stainless steel bayonet lock.

Window: tempered glass.

Movement: stainless steel.

Internal compensation device: by a bimetallic linkage.

Dial: aluminium, white with black markings.

Pointer: adjustable, aluminium, black.

BULB

ø bulb	Rigid extension code, ø 0.31" (8 mm)	Flexible extension code, ø 0.1" (2,5 mm)	sensible part length "b" (mm)				bulb length "S" (mm)
			capillary length		1...15 mt	16...30 mt	
			≤ 3 mt	4...10 mt			
0.31" (8 mm)	S22	S12			118	167	("b"+25)...1000
0.38" (9,6 mm)	S21	S11			87	127	
0.45" (11,5 mm)	S20 0°C < T.a.	S10 0°C < T.a.			60	87	
	S2B -20°C < T.a. < 0 °C	S1B -20°C < T.a. < 0 °C	115	135			
	S2D -60°C < T.a. < -20 °C	S1D -60°C < T.a. < -20 °C	150	180			

OPTIONS

2G0 - ATEX Ex II 2G h - Dry - T.a. -20...+60 °C	(1, 2)	E67 - Protection degree IP65/67
2D2 - ATEX II 2GD h - Silicon Oil R11 - T.a. -20...+60 °C	(1, 2)	R10 - Glycerine filling - IP65/67 - T.a. 0...+65 °C
2D0 - ATEX II 2GD h - Glycerine R10 - T.a. 0...+60 °C	(1, 2)	R11 - Silicone oil filling - IP65/67 - T.a. -20...+65 °C
2D5 - ATEX II 2GD h - Vented housing ECV+E67 - T.a. -53...+60 °C	(1, 2)	S60 - Special silicone oil filling - IP65/67 - T.a. -60...+65 °C
2D6 - ATEX II 2GD h - Special silicon oil S60 - T.a. -60...+60 °C	(1, 2)	T32 - Safety glass window
C40 - Case and ring AISI 316 st.st.		ECV - Vented housing version - IP65/67 - T.a. -53...+65 °C

(1) See the ATEX temperature gauges data-sheet for technical details.

(2) Not available with electric contacts

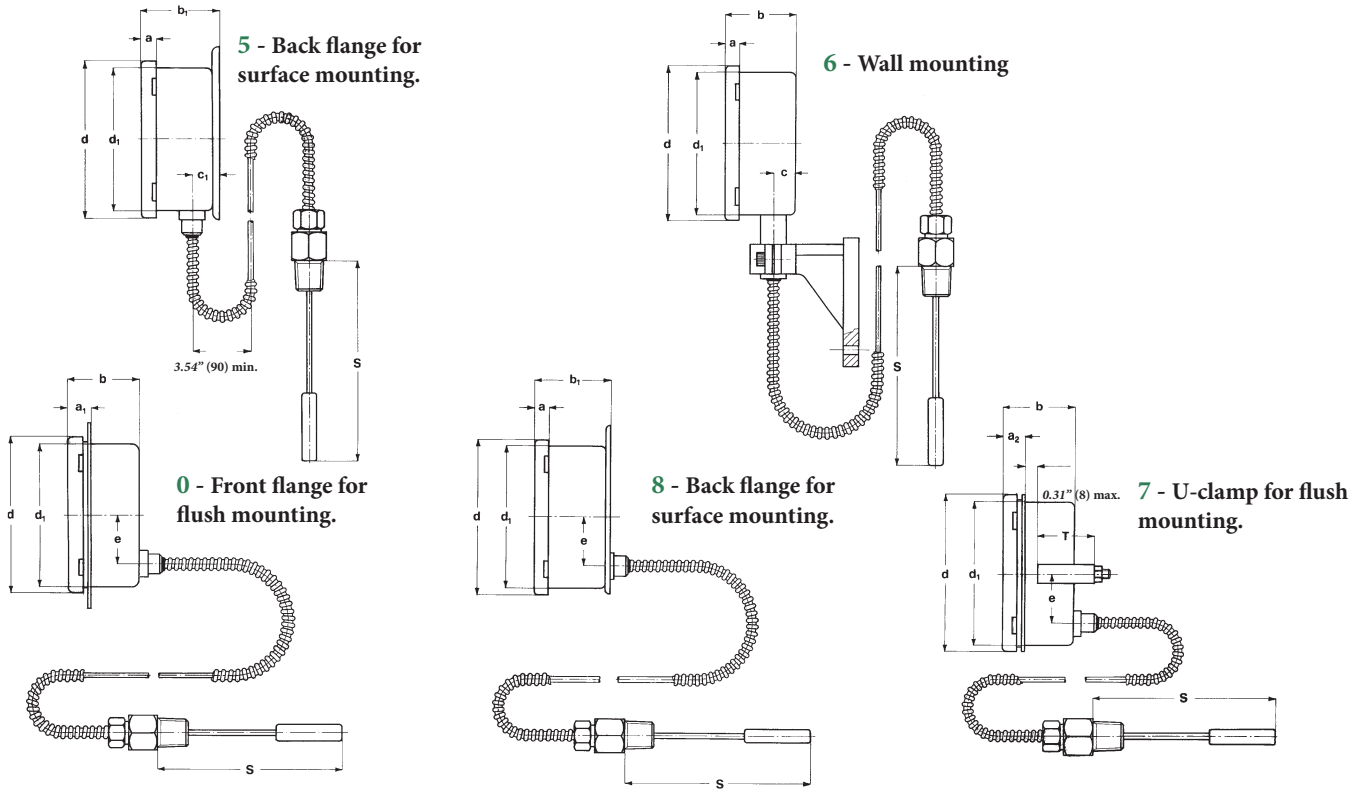
(3) to be ordered with E67 option

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all stainless steel construction DS 4", 6" (100-150 mm)

TG8

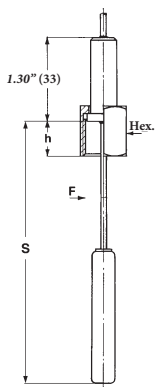
R9 - 10/20

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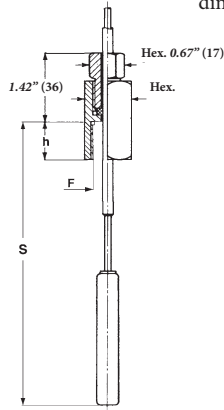


DS	A	B	a	a ₁	a ₂	b	b ₁	c	c ₁	d	d ₁	D	E	E ₁	e	h	h ₁	T	V	Z
E 4" (100)	2.72" (69)	2.36" (60)	0.57" (14,5)	0.83" (21)	0.79" (20)	1.99" (50,5)	2.15" (54,5)	0.61" (15,5)	0.77" (19,5)	4.41" (112)	3.98" (101)	5.12" (130)	4.57" (116)	4.65" (118)	1.36" (34,5)	2.05" (52)		1.63" (41,5)	2.76" (70)	4.41" (112)
G 6" (150)	3.78" (96)	2.36" (60)	0.65" (16,5)	0.83" (21)	0.79" (20)	2.11" (53,5)	2.26" (57,5)	0.61" (15,5)	0.77" (19,5)	6.54" (166)	5.91" (150)	7.48" (190)	6.89" (175)		1.36" (34,5)	3.35" (85)	3.35" (85)	1.77" (45)	4.17" (106)	6.10" (155)

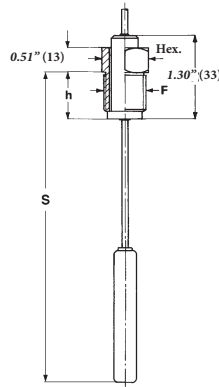
dimensions : inches (mm)



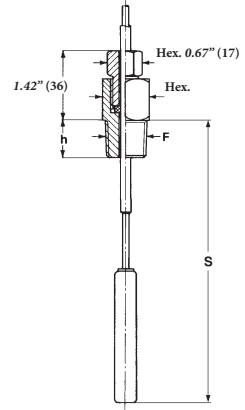
8 - Female swivel nut.



7 - Sliding female swivel nut.



5 - Male swivel nut.



9 - Sliding male swivel nut.

F	Hex.	h
41M G 1/2 A	0.94" (24)	0.63" (16)
51M G 3/4 A	1.18" (30)	0.63" (16)

F	Hex.	h
43M 1/2-14 NPT	0.94" (24)	0.71" (18)
53M 3/4-14 NPT	1.18" (30)	0.71" (18)

dimensions : inches (mm)

F	Hex.	h
41M G 1/2 A	0.87" (22)	0.55" (14)
51M G 3/4 A	1.06" (27)	0.55" (14)

F	Hex.	h
41M - G 1/2 A	0.87" (22)	0.55" (14)
43M - 1/2-14 NPT	0.87" (22)	0.67" (17)
51M - G 3/4 A	1.06" (27)	0.63" (16)
53M - 3/4-14 NPT	1.06" (27)	0.67" (17)

"HOW TO ORDER" SEQUENCE

Section / Model / Mounting / Connection type / Diameter / Range / Process connection / Bulb / Capillary / Options
6 TG8 0, 5, 6 5, 7 E 41M, 43M S20...22 1 2G0...ECV
7, 8 8, 9 G 51M, 53M S10...12 6

