

bi-metal thermometers

all stainless steel construction

DS 4", 5", 6" (100-125-150 mm)



ATEX 2014/34/UE



These instruments are designed for use in chemical, petrochemical processing industries. They are built to resist the most severe operating conditions created by the ambient environment and the process medium. The case and bulb TIG welding makes the whole construction more robust and prevents leakage when the instrument is filled with a dampening fluid protecting the instrument from vibrations.

6.TB8 - Standard Model

Designation: EN 13190.

Indication ranges: -80...+1000 °F (-50...+600 °C).

Measuring ranges: -60...+900 °F (-40...+500 °C); -60...<+840 °F (-40...+450 °C) continuous; +840...900 °F (+450...500 °C) intermittent.

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

Overtemperature limit: 30% of full scale range for temperature ≤ 750 °F (400 °C); max 900 °F (500 °C).

Special overtemperature (option F02): 100% of full scale range for temperature ≤ 300 °F (150 °C); 50% of full scale range for temperature from +300...550 °F (+150...300 °C).

Ambient temperature: -4...+149°F (-40...+65 °C).

Max working pressure: 200 psi - 15 bar (without thermowell).

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

Process connection: AISI 316 st.st.

Bulb: ø 0.24" (cod. 6), ø 0.25" (cod. 7), ø 0.31" (cod. 8), ø 0.38" (cod. 9)
(ø 6-6,4-8-9,6 mm) AISI 316 st. st.

OPTIONS

DESCRIPTION	DS 4" (100mm)	DS 5" (125mm)	DS 6" (150mm)
2G2 - ATEX Ex II 2G h - Dry - T.a. -20...+60 °C			
2D2 - ATEX II 2GD h - Silicon Oil R11 - T.a. -20...+60 °C			
2D0 - ATEX II 2GD h - Glycerine R10 - T.a. 0...+60 °C			
2D5 - ATEX II 2GD h - Vented housing ECV - T.a. -53...+60 °C			
2D6 - ATEX II 2GD h - Special silicon oil S60 - T.a. -60...+60 °C			
R10 - Case glycerine filling - IP65/67 - T.a. 0...+65 °C - T.p. max +160 °C	♦	♦	♦
R11 - Case filling with silicon oil - IP65/67 - T.a. -20...+65 °C - T.p. max +250 °C	♦	♦	♦
C40 - Case and ring AISI 316 st.st.	♦	♦	♦
T32 - Safety double stratified glass	♦	♦	♦
ECV - Vented housing version - IP65/67 - T.a. -53...+65 °C	(1, 2)	♦	♦
E67 - Protection degree IP65/67		♦	♦
S60 - Special silicone oil filling - IP67 - T.a. -60...+65 °C			♦

See the ATEX temperature gauges data-sheet for technical details

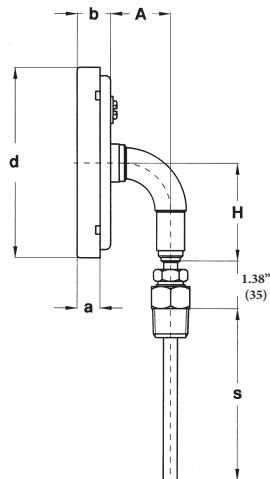
(1) to be ordered with E67 option

(2) in case of orrosive atmospheres a filled model is recommended

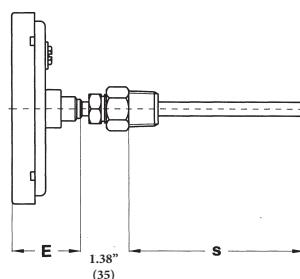
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TB8

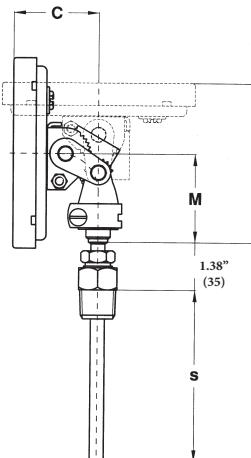
RC7-10/19



1 - LOWER CONNECTION



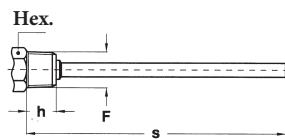
4 - BACK CONNECTION



9 - EVERY-ANGLE CONNECTION

dimensions : *inches* (mm)

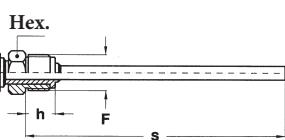
DS	A	a	b	C	d	E	H	M	N
E 4"(100)	1.36"(34,5)	0.51"(13)	0.75"(19)	1.93"(49)	4.35"(110,6)	1.54"(39)	2.24"(57)	2.03"(51,5)	3.64"(92,5)
F 5"(125)	1.36"(34,5)	0.57"(14,5)	0.77"(19,5)	1.95"(49,5)	5.12"(130)	1.56"(39,5)	2.56"(65)	2.03"(51,5)	3.66"(93)
G 6"(150)	1.36"(34,5)	0.59"(15)	0.79"(20)	1.97"(50)	6.34"(161)	1.57"(40)	3.23"(82)	2.03"(51,5)	3.68"(93,5)



3 - Fixed male

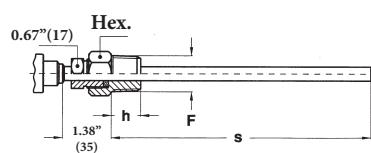
F	Hex.	h
41M - G 1/2 A	0.87"(22) *	0.67"(17)
43M - 1/2-14 NPT	0.87"(22) *	0.55"(14)

* ø 24 for every-angle mounting



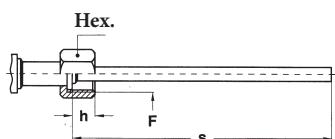
5 - Male swivel nut

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



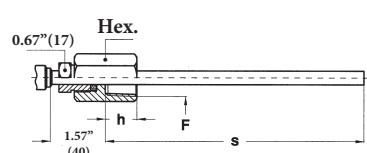
9 - Sliding male and swivel nut

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)



8 - Female swivel nut

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



7 - Sliding female and swivel nut

F	Hex.	h
43F - 1/2-14 NPT	0.94"(24)	0.71"(18)
53F - 3/4-14 NPT	1.26"(32)	0.71"(18)

"HOW TO ORDER" SEQUENCE

Section / Model /Mounting / Connection type / Diameter / Range / Process connection / Bulb type and length / Options

6	TB8	1	3	E	41M	6	2G2...S60
		4	5	F	43M	7	
		9	7	G	51M	8	
			8		53M	9	
			9		43F		
					53F		