MEASURING INSTRUMENTS - STRUMENTI PER MISURARE

THERMOMETERS

NUOVA FIMA

TB7

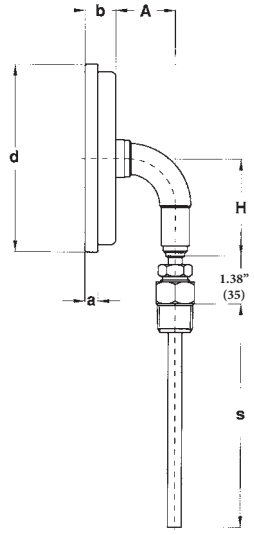
bi-metal thermometers
DS 2.5", 3", 4",5"
(63-80-100-125 mm)

These instruments are designed for use in chemical, petrolchemical processing industries. They are built to resist the most severe operating conditions created by the environment and the process medium. An Argonarc welded case/bulb strengthens the whole construction.

6.TB7 - Standard Model

Designation: EN 13190.
Accuracy class: 2 as per EN 13190, measuring range.
Indication ranges: *0...+1000 °F* (-20...+500 C).
Measuring ranges: *+15...+840 °F* (-10...+450 C).
Overtemperature limit: 10% of full scale range for temperature *750 °F* (400 C); max *930 °F* (500 C).
Ambient temperature: *-13...+149 °F* (-25...+65 C).
Max working pressure: *200 psi* - 15 bar (without thermowell).
Protection degree: IP 55 as per EN 60529/IEC 529.
Process connection: stainless steel.

Bulb: *ø 0.24 (cod. 4), ø 0.31" (cod. 5)* (6-8 mm) AISI 316 st. st.
Bulb length: *3.94-5.91-7.87-9.84"* (100 - 150 - 200 - 250 mm)
Measurement element: bi-metal spiral shaped.
Case: stainless steel.
Ring: stainless steel, crimped.
Window: plexiglas.
Dial: aluminium, white with black markings.
Pointer: not adjustable, aluminium, black.

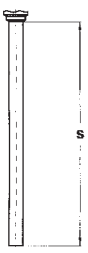


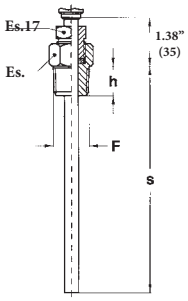
DS		a	b	d	A	H
D	*3"* (80)	*0.32"* (8,2)	*0.67"* (17)	*3.13"* (79,5)	*1.36"* (34,5)	*2.09"* (53)
E	*4"* (100)	*0.29"* (7,4)	*0.71"* (18)	*4.32"* (109,8)	*1.36"* (34,5)	*2.09"* (53)
F	*5"* (125)	*0.26"* (6,5)	*0.65"* (16,5)	*5.09"* (129,2)	*1.36"* (34,5)	*2.64"* (67)

dimensions : *inches* (mm)

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)

DS 3-4-5" (80-100-125 mm)





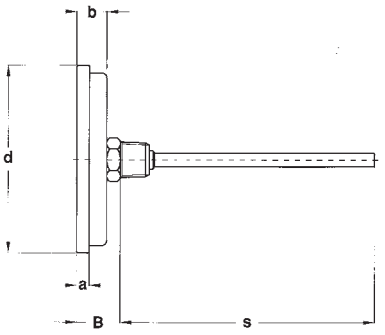
1 - Lower connection

0 - Without threaded connection

9 - Sliding male and swivel nut

ISO 9001 : 2008
Cert. nr. 0433/6

RB2 - 03/13

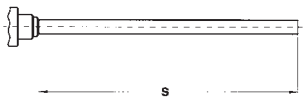


DS 2.5-3-4-5" (63-80-100-125 mm)

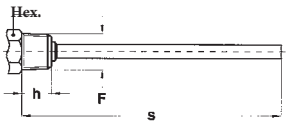
4 - Back connection

DS	a	b	d	B
C *2.5"* (63)	*0.23"* (5,8)	*0.51"* (13)	*2.67"* (67,9)	*0.83"* (21)
D *3"* (80)	*0.32"* (8,2)	*0.67"* (17)	*3.13"* (79,5)	*0.98"* (25)
E *4"* (100)	*0.29"* (7,4)	*0.70"* (17,7)	*4.32"* (109,8)	*1.01"* (25,7)
F *5"* (125)	*0.26"* (6,5)	*0.65"* (16,5)	*5.09"* (129,2)	*0.96"* (24,5)

0 - Without threaded connection



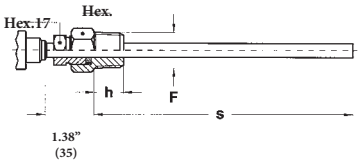
3 - Fixed male



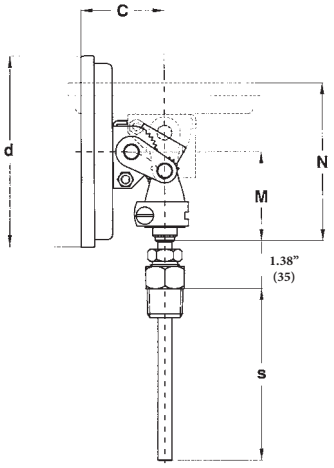
F	Hex.	h
41M G 1/2 A	*0.87"* (22)	*0.55"* (14)
43M 1/2-14 NPT	*0.87"* (22)	*0.67"* (17)
21M G 1/4 A	*0.67"* (17)	*0.47"* (12)

dimensions : *inches* (mm)

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)



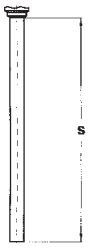
DS	d	C	M	N
E *4"* (100)	*4.32"* (109,8)	*1.88"* (47,7)	*2.03"* (51,5)	*3.59"* (91,2)
F *5"* (125)	*5.09"* (129,2)	*1.83"* (46,5)	*2.03"* (51,5)	*3.54"* (90)

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)

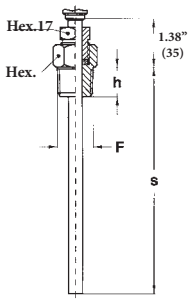
dimensions : *inches* (mm)

DS 4-5" (100-125 mm)

9 - Every angle connection



0 - Without threaded connection



9 - Sliding male, swivel nut

"HOW TO ORDER" SEQUENCE

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

6	**TB7**	**1**	**0**	**C**	**41M**	**4**
		4	**1**	**D**	**43M**	**5**
		9	**3**	**E**	**21M**	
			9	**F**		

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TB8

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, petrolchemical processing industries. They are built to resist the most severe operating conditions created by the ambient environment and the process medium. An TIG welded case/bulb 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.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 only.
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: *-22...+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.

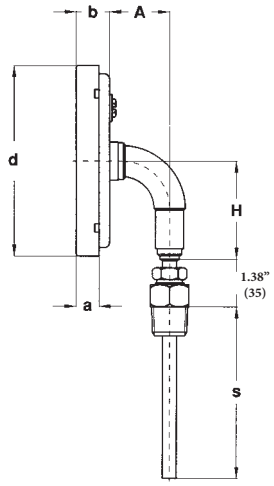
Bulb: ø *0.24" (cod.* **6***)*, ø *0.25" (cod.* **7***)*, ø *0.31" (cod.* **8***)*, ø *0.38" (cod.* **9***)* (ø 6-6,4-8-9,6 mm) AISI 316 st. st.
Immersion length:
from *5.91"* to *27.55"* (from 150 to 700 mm)
for bulbs ø *0.24-0.25"* (6-6,4 mm);
from *3.94"* to *35.43"* (from 100 to 900 mm)
for bulbs ø *0.31-0.38"* (8-9,6 mm) and ranges ≤ *600 °F* (300 °C);
from *5.91"* to *35.43"* (from 150 to 900 mm)
for bulbs ø *0.31-0.38"* (8-9,6 mm) and ranges > *600 °F* (300 °C)
(other lengths available upon request)
Measuring element: bi-metal spiral shaped.
Case: stainless steel.
Ring: stainless steel bayonet lock.
Window: tempered glass.
Dial: aluminium white with black markings.
Pointer: not adjustable, aluminium, black.
Zero-Adjustement: external zero-adjustment screw.

OPTIONS

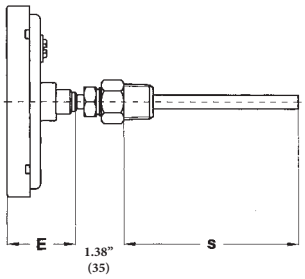
DESCRIPTION	DS 4" (100mm)	DS 5" (125mm)	DS 6" (150mm)
2G3 - ATEX version II 2GD c	*See the ATEX temperature gauges data-.sheet for technical details*		
2D3 - ATEX version II 2GD ck			
3D3 - ATEX version II 3GD c			
C40 - Case and ring AISI 316 st.st.	◆	◆	◆
F02 - Special overtemperature	◆	◆	◆
R10 - Glycerine filling, max +320 °F (+160 °C)	◆	◆	◆
R11 - Silicone filling, max +482 °F (+250 °C)	◆	◆	◆
T01 - Tropicalization	◆	◆	◆
T32 - Safety double stratified glass	◆	◆	◆

bi-metal thermometers all stainless steel construction
DS 4", 5", 6" (100-125-150 mm)

TB8

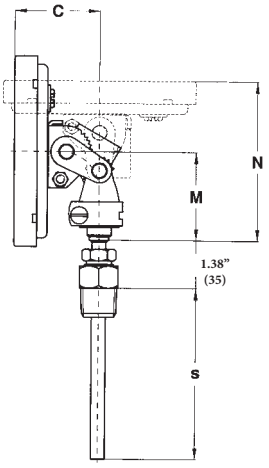


1 - LOWER CONNECTION



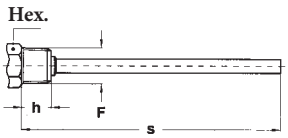
4 - BACK CONNECTION

dimensions : *inches* (mm)



9 - EVERY-ANGLE CONNECTION

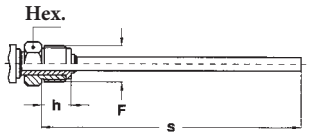
DS	A	a	b	C	d	E	H	M	N
E 4" (100)	1.36" (34,5)	0.51" (13)	0.75" (19)	1.93" (49)	4.35" (110,6)	1.54" (39)	2.24" (57)	2.03" (51,5)	3.64" (92,5)
F 5" (125)	1.36" (34,5)	0.57" (14,5)	0.77" (19,5)	1.95" (49,5)	5.12" (130)	1.56" (39,5)	2.56" (65)	2.03" (51,5)	3.66" (93)
G 6" (150)	1.36" (34,5)	0.59" (15)	0.79"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



3 - Fixed male

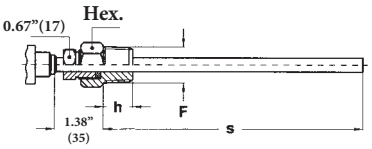
F	Hex.	h
41M - G 1/2 A	0.87" (22) *	0.67" (17)
43M - 1/2-14 NPT	0.87" (22) *	0.55" (14)

* ø 24 for every-angle mounting



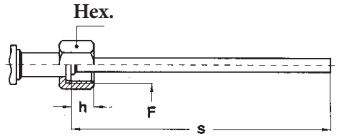
5 - Male swivel nut

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)



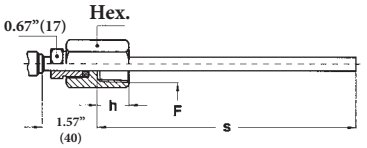
9 - Sliding male and swivel nut

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	2G3...T32
		4	5	F	43M	7	
		9	7	G	51M	8	
			8		53M	9	
			9		43F		
					53F		

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TB9

bi-metal thermometers
DS 3", 5"
(80-125 mm)

PED 2014/68/EU

These instruments are designed for use in chemical, petrolchemical processing industries. They are built to resist the most severe operating conditions created by the environment and the process medium. A TIG welded case/bulb strengthens the whole construction. The hermetic seal minimize the risk of icing or fogging inside the case.

6.TB9 - Standard Model

Designation: ASME B40.3.
Accuracy class: 1% full-span (grade A).
Ranges: -80...+1000 °F/°C.
Overtemperature limit: 10% of full scale range; max 930 °F.
Ambient temperature: -20...+150 °F (-30...+65 °C).
Max working pressure: 200 psi - 15 bar (without thermowell).
Protection degree: IP 65 as per EN 60529/IEC 529.
Process connection: AISI 303 stainless steel.
Stem: ø 1/4" (6,35 mm), AISI 304 st. st.
Sensing element: coiled bi-metal.
Case: stainless steel, hermetically sealed as per ASME B40.3.
Ring: stainless steel, crimped.
Window: heavy duty tempered glass.
Dial: white aluminium, black and red marking.
Pointer: black aluminium.
Zero-adjustment: external, at back of case.

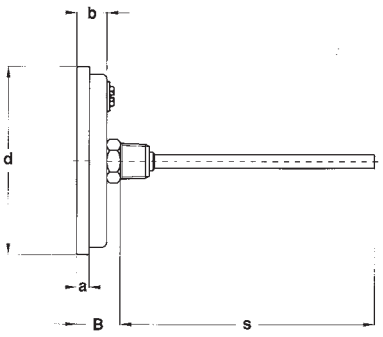
Ranges (°F/°C)
-80...+120
-20...+120
+30...+130
0...+200
0...+250
0...+300
+50...+300
+50...+400
+50...+550
+200...+700 (1)
+100...+800 (1)
+200...+1000 (1)

(1) minimum stem length: 6" inches (150 mm)

STEM LENGTH

cod.	7C	7D	7E	7F	7G	7H	7I
inch.	2" 1/2	4"	6"	9"	12"	15"	18"
(mm)	(63,5)	(101,6)	(152,4)	(228,6)	(304,8)	(381)	(457,2)

RG - 04/14

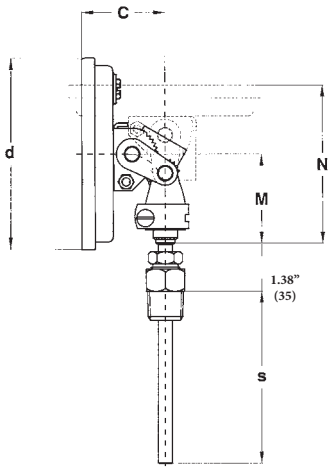


DS *3.5"-4.5"* (80-125 mm)

4 - Back connection

DS	a	b	d	B
D 3" (80)	0.32" (8,2)	0.67" (17)	3.13" (79,5)	0.98" (25)
F 5"(125)	0.26" (6,5)	0.65" (16,5)	5.09" (129,2)	0.96" (24,5)

dimensions : inches (mm)

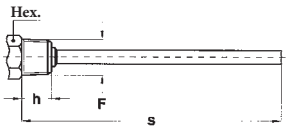


DS 4.5" (125 mm)

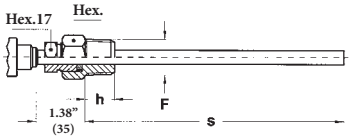
9 - Every-angle connection

DS	d	C	M	N
F 5"(125)	5.09" (129,2)	1.83" (46,5)	2.03" (51,5)	3.54" (90)

dimensions : inches (mm)



3 - Fixed male



9 - Sliding male and swivel nut

DS	F	Hex.	h
D 3" (80)	23M 1/4-18 NPT	0.87" (22)	0.67" (17)
F 5"(125)	43M 1/2-14 NPT	0.87" (22)	0.67" (17)

dimensions : inches (mm)

OPTIONS

DESCRIPTION		
P00-	Glycerine fillable	(1)
P01 -	Silicone fillable	(1)
R10 -	Glycerine filling, max +320 °F (+160 °C)	(1)
R11 -	Silicone filling, max +482 °F (+250 °C)	(1)

(1) Protection degree: IP 67 as per EN 60529/IEC 529.

"HOW TO ORDER" SEQUENCE

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

6	TB9	4 9	3 9	D F	43M 23M	7C...7I	P00...R11

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TG8

inert gas filled thermometers, local mounting
all stainless steel construction
DS 4", 6" (100-150 mm)

CE ATEX 2014/34/UE EAC

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: *-22...+149 °F* (-40...+65 °C).
Max working pressure: *360 psi* - 25 bar (without thermowell).
Protection degree: IP 55 as per IEC 529.
Process connection: AISI 316 st.st.
AISI 316 st.st. bulb: with rigid extension ø *0.31"* (8 mm): **S22** - ø *0.31"* (8 mm) = *5.63"...393,7"* (143...10000 mm);
S21 - ø *0.38"* (9,6 mm) = *4.41"...393,7"* (112...10000 mm);
S20 - ø *0.45"* (11,5 mm) = *3.35"...393,7"* (85...10000 mm);
with flexible extension ø *0.10"* (2,5 mm):
S12 - ø *0.31"* (8 mm) = *5.63"...393,7"* (143...10000 mm);
S11 - ø *0.38"* (9,6 mm) = *4.41"...393,7"* (112...10000 mm);
S10 - ø *0.45"* (11,5 mm) = *3.35"...393,7"* (85...10000 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.

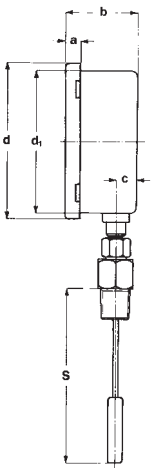
OPTIONS

2G3 - ATEX version II 2G c	(1) (2)	Electric contacts	(3)
2D3 - ATEX version II 2GD c	(1) (2)	**R10** - Glycerine filling, max *+320 °F* (+160 °C)	(2)
C40 - Case and ring AISI 316 st.st.		**R11** - Silicone filling, max *+482 °F* (+250 °C)	(2)
E65 - Protection degree IP65	(2)	**T01** - Tropicalization	
L22 - Maximum pointer IP 65 on plexiglas window	(2)	**T32** - Safety glass window	(2)

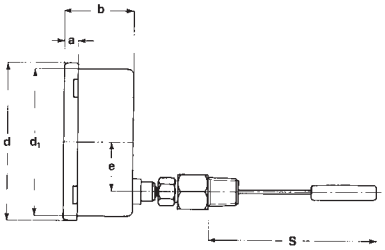
(1) See the ATEX temperature gauges data-sheet for technical details.
(2) Not available with electric contacts
(3) Codes, description and wiring on data sheet MN14.

inert gas filled thermometers, local mounting, all stainless steel construction DS 4", 6" (100-150 mm)

TG8



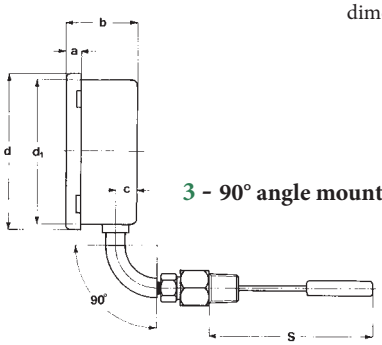
1 - Bottom mounting



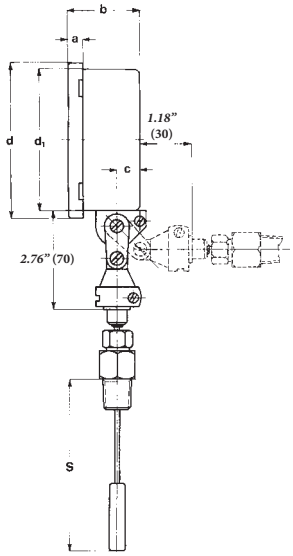
4 - Back mounting

DS	a	b	c	d	d_1
E 4" (100)	*0.57"* (14,5)	*1.99"* (50,5)	*0.61"* (15,5)	*4.41"* (112)	*3.98"* (101)
G 6" (150)	*0.65"* (16,5)	*2.11"* (53,5)	*0.61"* (15,5)	*6.54"* (166)	*5.91"* (150)

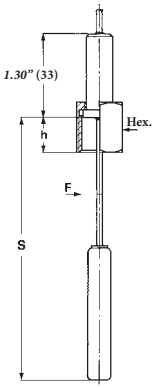
dimensions : *inches* (mm)



3 - 90° angle mounting

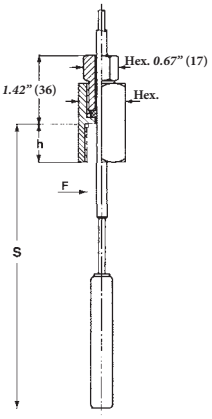


9 - Every angle mounting



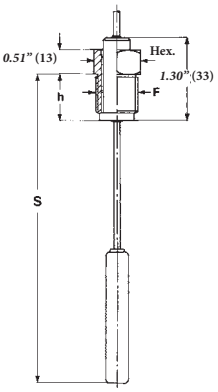
8 - Female swivel nut.

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)



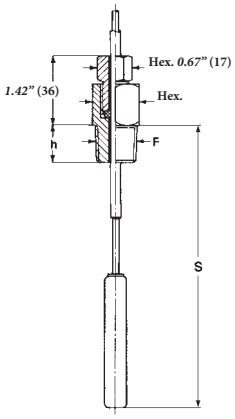
7 - Sliding female swivel nut.

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



5 - Male swivel nut.

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)



9 - Sliding male 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)

dimensions : *inches* (mm)

"HOW TO ORDER" SEQUENCE

Section	/ Model	/Mounting	/ Connection type	/ Diameter	/ Range	/ Process connection	/ Bulb	/ Options
6	TG8	1, 3	5, 7	E		41M, 43M	S20...22	2G3...T32
		4, 9	8, 9	G		51M, 53M	S10...12	

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TG8

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

CE ATEX 2014/34/UE EAC

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: *+32...+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.

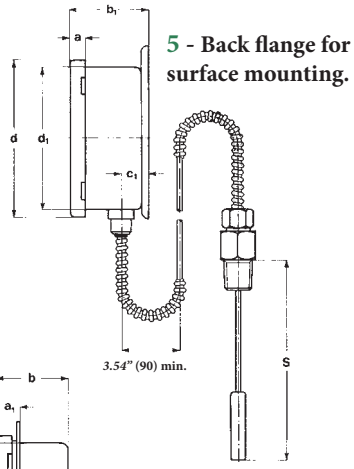
BULB

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 ≤ 15 mt	capillary 16...30 mt	
0.31" (8 mm)	**S22**	**S12**	118	167	("b"+25)...1000
0.38" (9,6 mm)	**S21**	**S11**	87	127	("b"+25)...1000
0.45" (11,5 mm)	**S20**	**S10**	60	87	("b"+25)...1000

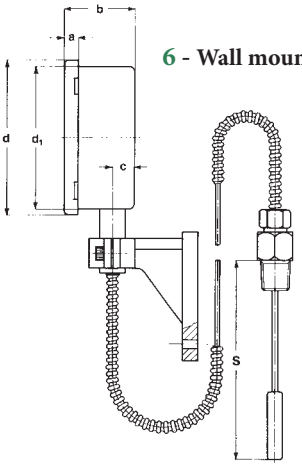
OPTIONS

2G3 - ATEX version II 2G c	(1) (2)	Electric contacts	(3)
2D3 - ATEX version II 2GD c	(1) (2)	**R10** - Glycerine filling	(2)
C40 - Case and ring AISI 316 st.st.		**R11** - Silicone filling	(2)
E65 - Protection degree IP65	(2)	**T01** - Tropicalization	
L22 - Maximum pointer IP 65 on plexiglas window	(2)	**T32** - Safety glass window	(2)

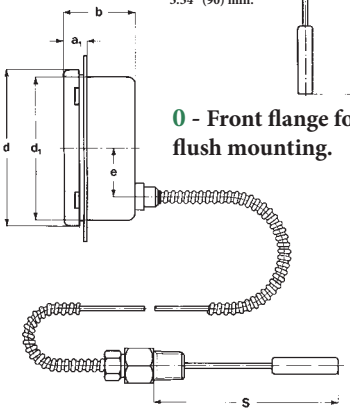
(1) See the ATEX temperature gauges data-sheet for technical details.
(2) Not available with electric contacts
(3) Codes, description and wiring on data sheet MN14.



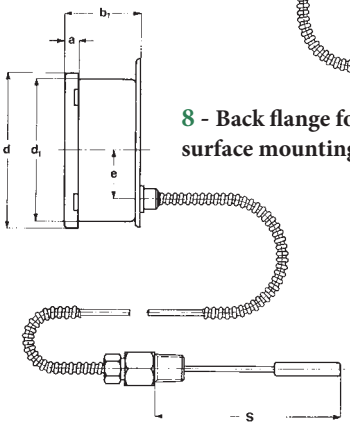
5 - Back flange for surface mounting.



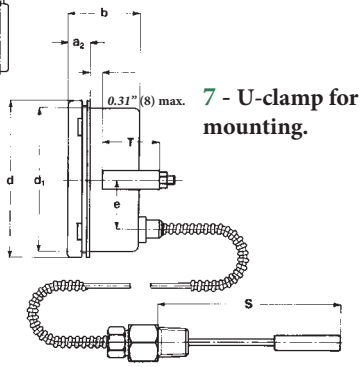
6 - Wall mounting



0 - Front flange for flush mounting.



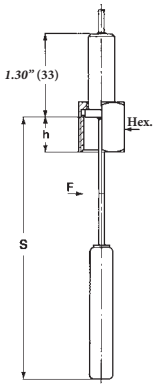
8 - Back flange for surface mounting.



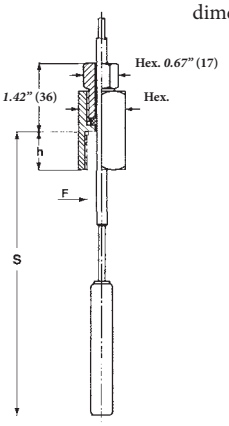
7 - U-clamp for flush mounting.

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)

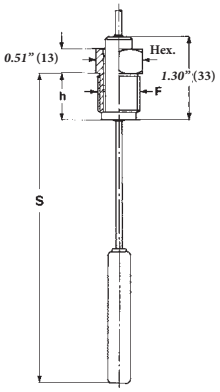
dimensions : *inches* (mm)



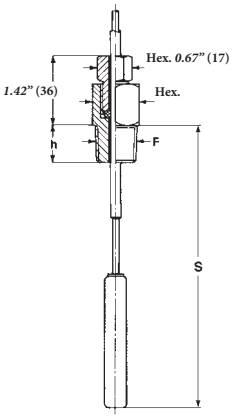
8 - Female swivel nut.



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 7, 8	5, 7 8, 9	E G	41M, 43M 51M, 53M	S20...22 S10...12	1 6	2G3...T32

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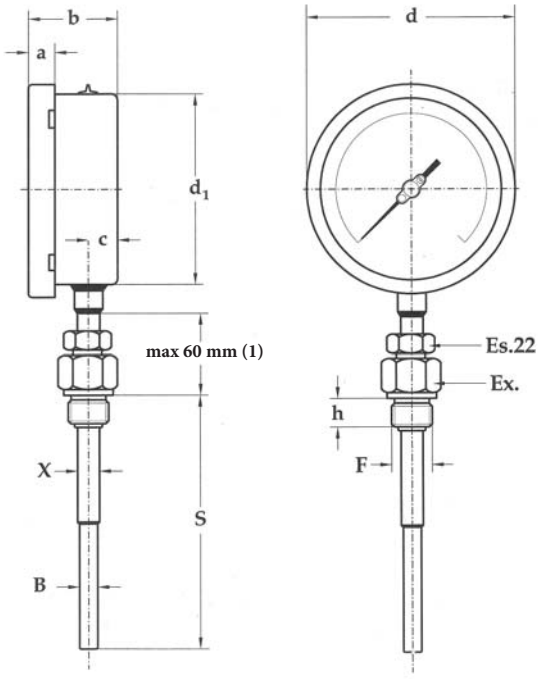
inert gas filled thermometers, anti-vibration all stainless steel construction DS 4" (100 mm)

These instruments are designed to measure the waste gas of diesel engines. They are built to resist to the most severe operating conditions created by high temperature and by the diesel engines vibrations.

6.TA8 - Standard Model

Measuring range: 0...650 °C/°F (other ranges on request).
Accuracy class: 1 as per EN 13190, measuring range.
Overtemperature limit: not suitable.
Ambient temperature: -13...+149 °F (-25...+65 °C).
Max working pressure: 360 psi - 25 bar (without thermowell).
Protection degree: IP 67 as per EN 60529/IEC 529.
Process connection: AISI 303 st.st.
Bulb: AISI 316 st.st.
S24 - ø 0.37" (9,5 mm), with rigid extension ø 0.5" (12,7 mm).
Immersion length: 5.51"...17.72" (140...450 mm);
Measuring element: inert gas filled expansion system.
Case: AISI304 st.st.
Ring: AISI304 st.st, bayonet lock.
Window: tempered glass.
Movement: stainless steel.
Dial: aluminium, white with black abd red markings.
Pointer: adjustable, aluminium, black.
Filling liquid: high viscosity silicone oil.
Internal compensation device: by a bimetallic linkage.
Gasket: siliconic gum.

RC2 - 03/16



F	Ex.	h
41M	*1.06"*	*0.55"*
G 1/2 A	(27)	(14)
43M	*0.94"*	*0.67"*
1/2-14 NPT	(24)	(17)

1 - LOWER CONNECTION

a	b	c	d	d_1	ø X	ø B	S
0.51"	1.89"	0.61"	4.35"	3.98"	0.50"	0.37"	5.51...17.72"
(13)	(48)	(15,5)	(110,6)	(101)	(12,7)	(9,5)	(140...450)

(1) For a longer instrument life do not settle the sliding connection at a higher level than the one indicated.

dimensions : inches (mm)

"HOW TO ORDER" SEQUENCE

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

6	TA8	1	9	E	41M	S24
					43M	

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TV606

industrial glass tube thermometer
brass series

Instruments designed for use on: conventional power station, refrigeration plant, heating, ventilation and air-condittioning plant.

6.V6 - Standard Model

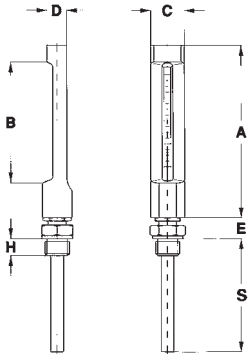
Accuracy: ±1,0% of full scale value.
Working pressure: *350 psi max* (25 bar), without thermowell.
Overtemperature: not suitable.
Sensing element: colored liquid, mercury.
Graduation: engraved on internal wall of case.
Tube: glass, prismatic on mercury types.
Bulb: *ø 0.43"* (11 mm).
Case: aluminium, anodized brass.
Process connection and bulb protection:
brass for Te ≤ *752 °F* (400 °C).
Standard bulb length: 1.57, 1.89, 2.48, 3.15, 3.93, 6.30, 7.87, 11.81"
(40, 48, 63, 80, 100, 160, 200, 300 mm.

RANGES	Scale graduation (°C)		
°C	ND 4" (110mm)	ND 6" (150mm)	ND 8" (200mm)
-60...+40		2	
-50...+50			1
-40...+40	1	1	
-30...+50		1	1
-10...+50		1	1
0...+50	1		
0...+100	2	2	1
0...+120	2	2	1
0...+160	2	2	2
0...+200	5	5	2
0...+300		5	5
0...+400		5	5

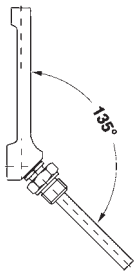
NOTE
In case of breakage it is sufficient to change the tube, with engraved scale. This operation is possible thanks to the perfect interchangeability of tubes wich permits a perfect alignment between engraved scale on tube and graduations on casing.

RB4 - 03/13

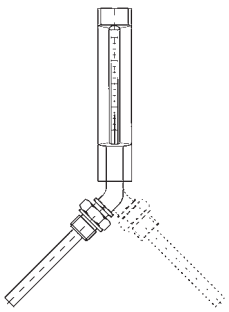
MOUNTING



Cod. 1

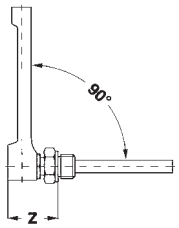


Cod. 2
(ND 6"- 150mm
not available)

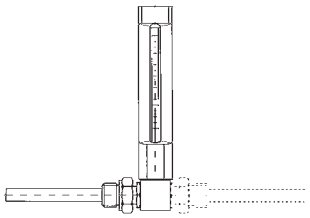


Cod. F

Cod. G



Cod. 4



Cod. D

Cod. E

ND	F	A	B	C	D	E	Z	H	S	Weight ***lbs.*** (kg)
E *4"* (110 mm)	**31M** - G 3/8 A **41M** - G 1/2 A **51M** - G 3/4 A **43M** - 1/2-14 NPT **53M** - 3/4-14 NPT	*4.33* (110)	*2.79* (70)	*1.38* (35)	*0.79* (20)	*0.79* (20)	*1.77* (45)	*0.59* (15)	*1.57...11.81* (40...300)	*1.32...2.42* (0,6...1,1)
G *6"* (150 mm)		*5.91* (150)	*3.94* (100)	*1.38* (35)	*0.79* (20)	*0.79* (20)	*1.77* (45)	*0.59* (15)	*1.57...11.81* (40...300)	*1.54...2.64* (0,7...1,2)
H *8"* (200 mm)		*7.87* (200)	*5.91* (150)	*1.38* (35)	*0.79* (20)	*0.79* (20)	*1.77* (45)	*0.59* (15)	*1.57...11.81* (40...300)	*1.76...2.86* (0,8...1,3)

dimensions : *inches* (mm)

FILLING LIQUIDS

°C	Colored liquid A	Mercury B
-60...+40	v	
-50...+50	v	
-40...+40	v	
-30...+50	v	v
-10...+50	v	v
0...+50	v	v
0...+100	v	v
0...+120	v	v
0...+160	v	v
0...+200	v	v
0...+300		v
0...+400		v

"HOW TO ORDER" SEQUENCE

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

6	V6	1	3	E	31M	A
		2		G	41M	B
		F		H	51M	
		G			43M	
		4			53M	
		D				
		E				

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TV8

industrial glass tube thermometer
watertight enclosure

These instruments are designed for the chemical and petrochemical industry, air conditioning and conventional power plants.

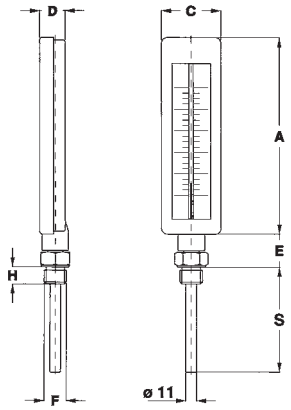
6.V8 - Standard Model

Accuracy: ±1,0% of full scale value.
Working pressure: 600 psi max (40 bar), without thermowell.
Overtemperature: not suitable.
Protection degree: IP 55 as per EN 60529/IEC 529.
Tube: Jena 16 III glass, with blue reflex on temperatures.
Sensing element: colored liquid, mercury.
Process connection and bulb protection: carbon steel.
Standard bulb length: 3.94, 7.87, 11.81, 15.75, 19.69" (100, 200, 300, 400, 500 mm).
Dial: aluminium, white with black markings.
Bulb: ø 0.43" (11 mm).
Case: aluminium-alloy, black painted.
Cover: polishec stainless steel.
Window: glass, 0.08" (2 mm) thick.
Gasket: neoprene.

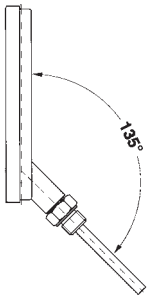
RANGES	Scale graduation (°C)	
°C	ND 7" (180 mm)	ND 10" (250 mm)
-50...+30	1	1
-50...+50	1	1
-40...+40	1	1
-30...+50	1	1
-10...+50	1	1
0...+80	1	1
0...+100	1	1
0...+120	2	1
0...+160	2	1
0...+200	2	2
0...+240		2
0...+300	5	5
0...+400	5	5

RG4 - 12/16

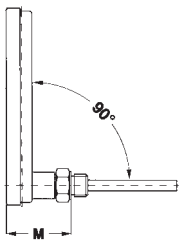
MOUNTING



Cod. 1



Cod. 2



Cod. 4

ND	F	A	C	D	E	M	H	S	Weight *lbs.* (kg)
H	41M - G 1/2 A	7.09	2.17	0.98	1.24	2.42	0.63	3.94...19.69	1.32...2.42
7" (180 mm)	51M - G 3/4 A	(180)	(55)	(25)	(31,5)	(61,5)	(16)	(100...500)	(0,6...1,1)
I	43M - 1/2-14 NPT	9.84	2.17	0.98	1.24	2.42	0.63	3.94...19.69	1.54...2.64
10" (250 mm)	53M - 3/4-14 NPT	(250)	(55)	(25)	(31,5)	(61,5)	(16)	(100...500)	(0,7...1,2)

FILLING LIQUIDS

°C	Colored liquid A	Mercury B
-50...+30	v	
-50...+50	v	
-40...+40	v	
-30...+50	v	v
-10...+50	v	v
0...+80	v	v
0...+100	v	v
0...+120	v	v
0...+160	v	v
0...+200	v	v
0...+240		v
0...+300		v
0...+400		v

"HOW TO ORDER" SEQUENCE

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

6	V8	1	3	H	41M	A
		2		I	51M	B
		4			43M	
					53M	

MN14

electric contacts for inert gas filled thermometers

PED 2014/68/EU

Are accessories with movable contacts in air, which open or close electric circuits depending of the position of the indicating pointer. They are used with inert gas filled thermometers of NUOVA FIMA production, in such way they become temperature switches: the optimal and sure solution to automatize any kind of equipment.

Contacts: sliding, magnetic snap action. Functional and constructive characteristics, wiring and electrci schemas are shown on the attached data-sheet: "ELECTRIC CONTACT".

Accuracy: when the indicating pointer is affected by the contact link add to the gauge accuracy the 50% of their accuracy (with the exclusion of the working area within the 5% if the contact is magnetic type).

Contact setting: over an arc of 270 °, trough the knob placed on front lens or trough removable key.

Electrical wiring: junction box PG9 as per DIN 43650 or cable 0,5 mt.

Ambient temperature: -25...+65 ∞C.

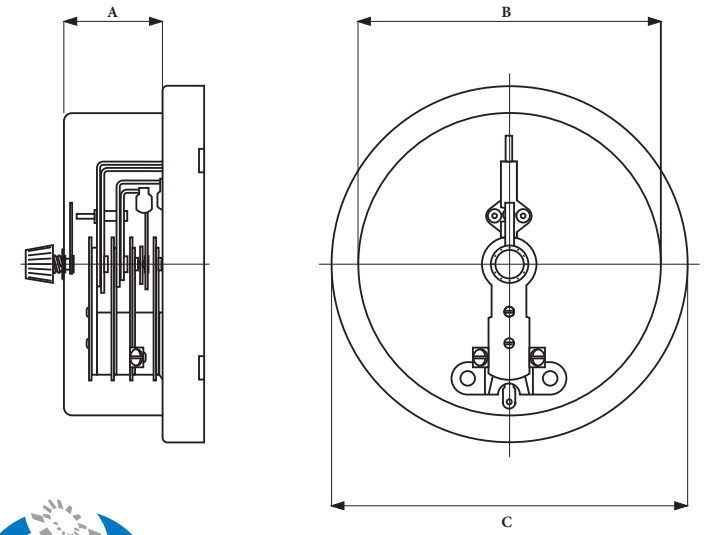
Protection: IP 44 as per IEC 529, (option IP 55).

Contact material: Silver-Nickel 80%-20% (optionsGold-Silver and Platinum-Iridium).

Window: Makrolon.

Overtemperature: non suitable.

DIMENSIONS (mm)



Single contact

DS	A	B	C
100	29	95	110,6
150	29	141	161

Double contacts

DS	A	B	C
100	36	95	110,6
150	36	141	161

ISO 9001 : 2008
Cert. nr. 0433/6

MODEL	TG8 DS 100-150		
Mounting	Lower, back, with back flange also		
Contact type	Sliding and magnetic snap-action contact		
Contact number		2	2 indipendent
Junction box	3 poles + GND	3 poles + GND	
ø exit cables: inches (mm)	0,23...0,35 (6...9)	0,23...0,35 (6...9)	
Cable exit ø cable: inches (mm)			4 poles + 1 0,27 (7)

MODEL	TG8 DS 100-150		
Mounting	Back, with front flange		
Contact type	Sliding and magnetic snap-action contact		
Contact number	1	2	2 indipendent
Junction box	3 poles + GND	3 poles + GND	
ø exit cables: inches (mm)	0,23...0,35 (6...9)	0,23...0,35 (6...9)	
Cable exit ø cable: inches (mm)			4 poles + 1 0,27 (7)

MODEL	TG8 DS 100-150		
Mounting	Back, with U-clamp		
Contact type	Sliding and magnetic snap-action contact		
Contact number	1	2	2 indipendent
Junction box	3 poles + GND	3 poles + GND	
ø exit cables: inches (mm)	0,23...0,35 (6...9)	0,23...0,35 (6...9)	
Cable exit ø cable: inches (mm)	2 poles + GND (1) 0,19 (4,8)	3 poles + GND (1) 0,23 (6)	4 poles + 1 0,27 (7)

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thermometers with electric contacts
all stainless steel construction
DS 4" (100 mm)

Compliance to requirements of BT 2014/35/EU

They are used to control the electrical operation of compressors, pumps, presses, hydraulic and pneumatics equipment, chemical and petrochemical plant. The contacts open or close the circuit depending on the position of the indicating pointer and they are adjustable over the whole range. The filling drastically reduces the effect of such factors as well as those caused by a corrosive atmosphere, giving longer life and better performances of the pressure gauge and their electric contacts. They are also available with inductive contacts intrinsecally safe.

6.TCE - Standard Model

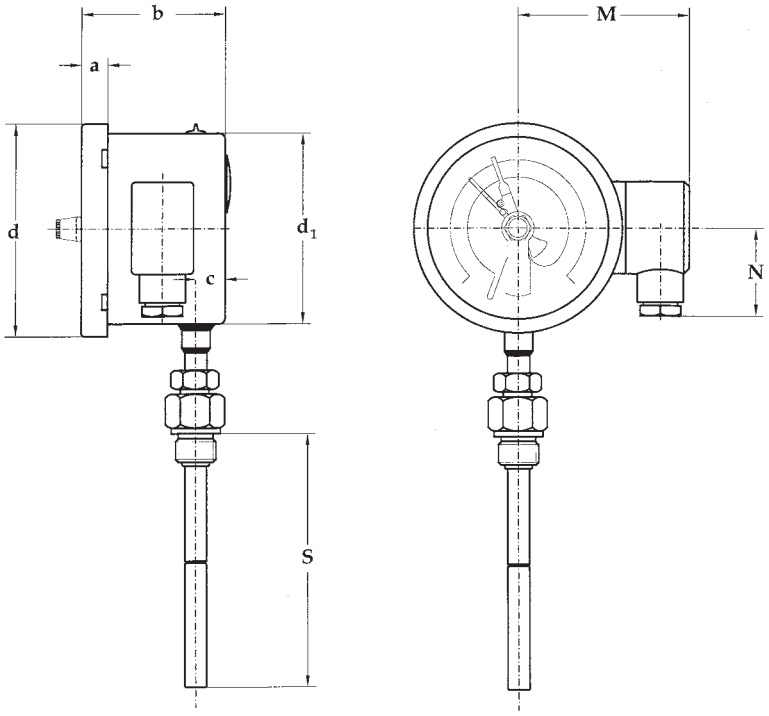
Designation: EN 13190.
Indication ranges: *-320...+1200 °F* (-200...+600 °C).
Measuring ranges: *-280...+1100 °F* (-170...+500 °C).
Mechanical contact: sliding contact, magnetic snap-action, electronic, inductive.
Accuracy class: 1 as per EN 13190, measuring range.
Overtemperature: not suitable.
Ambient temperature: *-13...+149 °F* (-25...+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.
Bulb: AISI 316 st.st. ø *0.31-0.37-0.45"* (8-9,5-11,5 mm), with rigid extension ø *0.31"* (8 mm)
Immersion length of the bulb with rigid extension "S": **S22** - ø *0.31"* (8 mm) = *5.63"...36.37"* (143...1000 mm);
S21 - ø *0.38"* (9,6 mm) = *4.41"...36.37"* (112...1000 mm);
S20 - ø *0.45"* (11,5 mm) = *3.35"...36.37"* (85...1000 mm).
Measuring element: inert gas filled expansion system.
Case: stainless steel.
Ring: stainless steel bayonet lock.
Window: plexiglas.
Movement: stainless steel.
Internal compensation device: by a bimetallic linkage.
Dial: aluminium, white with black markings.
Pointer: adjustable, aluminium, black.

6.TCE...R13 - Filled Model

Indication ranges: *-40...+500 °F* (-40...+250 °C).
Measuring ranges: *-20...+425 °F* (-30...+220 °C).
Mechanical contact: magnetic snap-action, electronic, inductive.
Accuracy class: 2 as per EN 13190, measuring range.
Filling liquids: silicon oil.
Protection: IP 65 as per EN 60529/IEC 529.
Other features: as Standard Model.

(1) The addition of mechanical electric contacts affects the accuracy of instruments such that 1% becomes 1,5%, 1,6% becomes 2,4% etc. (add the 50% of accuracy; if the contact is of the magnetically assisted type, this value can't be added within the ±5% of setting point).

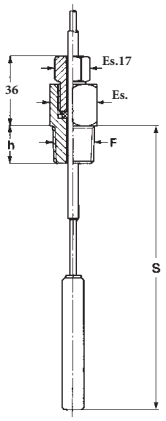
RB2 - 04/13



1 - Lower connection

DS	a	b (1)	d	d_1	M	N
	0.51"	*2.81/2.85"*	*4.41"*	*3.98"*	*3.54"*	*1.81"*
4" (100)	(13)	(71,5/82,5)	(112)	(101)	(90)	(46)

dimensions : *inches* (mm)



9 - Sliding male swivel nut

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

CONTACT TYPE (1)

MODEL	Standard			Filled		
Contact type	Sliding contact, electronic			Magnetic snap-action contact, electronic		
Contact number	1	2	2 indipendent	1	2	2 indipendent
Junction box	3 poles + GND	3 poles + GND	6 poles + GND	6 poles + GND	6 poles + GND	6 poles + GND
ø exit cables: *inches* (mm)	*0,23...0,35* (6...9)	*0,23...0,35* (6...9)	*0,27...0,51* (7...13)	*0,27...0,51* (7...13)	*0,27...0,51* (7...13)	*0,27...0,51* (7...13)
Minimum range	*140°F* (60°C)	*140°F* (60°C)	*140°F* (60°C)	*140°F* (60°C)	*140°F* (60°C)	*140°F* (60°C)

(1) Functional characteristics, electric diagrams and contact types are available on data-sheets : "ELECTRIC CONTACTS", "ELECTRONIC CONTACTS"

OPTIONS

R13 - Filling liquid: silicon oil, for temperature range ≤ *+500 °F* (250 °C)
ATEX version, with intrinsic safety inductive contact (1)

(1) See ATEX data-sheet for technical details

"HOW TO ORDER" SEQUENCE

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

6 TCE 1 9 E 41M, 43M 51M, 53M S20...22 R13

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bimetallic thermometers : ranges

standard version : DS 2.5", 3", 4", 5" (63-80-100-125 mm)

TB7

Primary °C	
Indication Ranges	Measuring Ranges
-20...+40	-10...+30
0...+60	+10...+50
0...+100	+10...+90
0...+120	+20...+100
0...+160	+20...+140
0...+200	+20...+180
0...+300	+30...+270
0...+400	+50...+350
0...+500	+50...+450

Primary °C (external)		Secondary °F (internal)	
Indication Ranges	Measuring Ranges	Indication Ranges	Measuring Ranges
-20...+40	-10...+30	-4...+104	+14...+86
0...+60	+10...+50	+30...+140	+50...+122
0...+100	+10...+90	+32...+212	+50...+194
0...+120	+20...+100	+32...+250	+68...+212
0...+160	+20...+140	+32...+320	+68...+284
0...+200	+20...+180	+35...+400	+68...+356
0...+300	+30...+270	+35...+570	+86...+518
0...+400	+50...+350	+40...+750	+122...+662
0...+500	+50...+450	0...+930	+122...+842

"all stainless steel" version : DS 4", 5", 6" (100-125-150 mm)

TB8

Primary °C	
Indication Ranges	Measuring Ranges
-50...+50	-40...+40
-30...+50	-20...+40
-20...+120	0...+100
-20...+80	-10...+70
-20...+40	-10...+30
0...+60	+10...+50
0...+80	+10...+70
0...+100	+10...+90
0...+120	+20...+100
0...+160	+20...+140
0...+200	+20...+180
0...+250	+30...+220
0...+300	+30...+270
0...+400	+50...+350
0...+500	+50...+450
0...+600	+100...+500
+50...+450	+100...+400
+100...+500	+150...+450

Primary °F	
Indication Ranges	Measuring Ranges
-80...+120	-60...+100
-20...+120	0...+100
0...+200	+20...+180
0...+250	+30...+220
+50...+400	+100...+350
+50...+550	+100...+500
+200...+700	+250...+650
+100...+800	+200...+700
+200...+1000	+300...+900

Primary °C (external)		Secondary °F (internal)	
Indication Ranges	Measuring Ranges	Indication Ranges	Measuring Ranges
-50...+50	-40...+40	-60...+122	-40...+104
-30...+50	-20...+40	-22...+122	-4...+104
-20...+120	0...+100	-4...+250	+32...+212
0...+60	+10...+50	+30...+140	+50...+122
0...+100	+10...+90	+32...+212	+50...+194
0...+120	+20...+100	+32...+250	+68...+212
0...+160	+20...+140	+32...+320	+68...+284
0...+200	+20...+180	+35...+400	+68...+356
0...+300	+30...+270	+35...+570	+86...+518
0...+400	+50...+350	+40...+750	+122...+662
0...+500	+50...+450	0...+930	+122...+842
0...+600	+100...+500	0...+1110	+212...+932

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

TG8

RB1 - 10/08

Primary °C	
Indication Ranges	Measuring Ranges
-200...+100	-170...+70
-200...+50	-170...+20
-120...+40	-100...+20
-80...+40	-60...+20
-50...+50	-40...+40
-40...+80	-30...+70
-40...+60	-30...+50
-40...+40	-30...+30
-30...+50	-20...+40
-20...+120	0...+100
-20...+80	-10...+70
-20...+60	-10...+50
-20...+40	-10...+30
0...+60	+10...+50
0...+80	+10...+70
0...+100	+10...+90
0...+120	+20...+100
0...+160	+20...+140
0...+200	+20...+180
0...+250	+30...+220
0...+300	+30...+270
0...+400	+50...+350
0...+500	+50...+450
0...+600	+100...+500
+50...+450	+100...+400
+100...+500	+150...+450

Primary °F	
Indication Ranges	Measuring Ranges
-350...+200	-300...+150
-350...+100	-300...+50
-200...+100	-170...+70
-100...+100	-80...+80
-40...+180	-20...+160
-20...+120	0...+100
0...200	+20...+180
0...250	+30...+220
+50...+300	+70...+270
+50...+400	+100...+350
+50...+550	+100...+500
+100...+800	+200...+700
+200...+700	+250...+650
+200...+1000	+300...+900
+400...+1200	+500...+1100

Primary °C (external)		Secondary °F (internal)	
Indication Ranges	Measuring Ranges	Indication Ranges	Measuring Ranges
-40...+100	-20...+80	-40...+220	-4...+176
-40...+60	-30...+50	-40...+140	-22...+122
0...+60	+10...+50	+30...+140	+50...+122
0...+100	+10...+90	+32...+212	+50...+194
0...+120	+20...+100	+32...+250	+68...+212
0...+160	+20...+140	+32...+320	+68...+284
0...+200	+20...+180	+35...+400	+68...+356
0...+300	+30...+270	+35...+570	+86...+518
0...+400	+50...+350	+40...+750	+122...+662
0...+500	+50...+450	0...+930	+122...+842
+100...+500	+150...+450	+200...+930	+302...+842
0...+600	+100...+500	0...+1110	+212...+932
+200...+600	+250...+550	+400...+1110	+482...+1022

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inert gas filled thermometers, all stainless steel construction, ATEX versions, DS 100-150 mm

TG8

RC2 - 05/16

These instruments are designed for explosive atmospheres in food, processing, pharmaceutical, petrochemical industries and conventional and nuclear power plants. They are in conformity with the essential Health and Safety Requirements laid down in European Directive 2014/34/UE for Group II, Category 2G or 2GD equipment in the T1...T6 temperature classes. They are NOT suitable for ZONES 0 and 20.

2G3 Version , Gas

They are available as dry version, DS 100-150 mm and keep the same functional and constructive features as TG8 model. They differ from it as follows :

Ambient temperature: -40...+60 °C.
Max process fluid temperature "Tp": see table (measured on the lowest point of socket).
Windows: high resistance safety glass.
Dial marking: CE Ex II 2G c TX X, model name and serial number.
Special dial: ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.
Options: plexiglas or tempered glass windows, electric contacts and accessories and overtemperature are not available.
Included documentation: Installation manual and Declaration of Conformity.

Class	Tp
T6 : *185°F* (85°C)	*176°F* (80°C)
T5 : *212°F* (100°C)	*203°F* (95°C)
T4 : *275°F* (135°C)	*266°F* (130°C)
T3 : *392°F* (200°C)	*383°F* (195°C)
T2 : *572°F* (300°C)	*554°F* (290°C)
T1 : *842°F* (450°C)	*824°F* (440°C)

2D3 Version , Gas and Dust

They are available as fillable or filled version, DS 100-150 mm and keep the same functional and constructive features as TG8 model. They differ from it as follows :

Damping liquids: glycerine 98%, silicon oil.
Ambient temperature:
-40...+60 °C for dry version;
0...+60 °C for glycerine filling;
-40...+60 °C for silicon oil filling.
Max process fluid temperature "Tp": see table (measured on the lowest point of socket).
Windows: high resistance safety glass.
Dial marking: CE Ex II 2GD c TX X, model name and serial number.
Special dial: ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.
Options: plexiglas or tempered glass windows and overtemperature are not available.
Included documentation: Installation manual and Declaration of Conformity.

Technical File: TF3 - Rev. 1/2016.

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