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INDUSTRIAL THERMOMETER T703



FEATURES

- Inert gas filled expansion
- Filled versions
- Bi-metal compensation

APPLICATION

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical

STANDARD PARAMETERS

Accuracy	: CL 1.0 (Class 1)
Ambient temperature	: 0...40°C max at case
Storage & Transport temperature	: -50...+70°C without liquid dampening : -20...+60°C with liquid dampening
Over range limits	: 110% full scale
Stem pressure rating	: 25 bar (Without thermowell)
Weld joints	: TIG argon arc welding

MATERIAL OF CONSTRUCTION

Sensing element	: Inert Gas Filled sensor bulb
Case & Ring material	: AISI 304 SS
Stem & Process connection material	: AISI 316 SS
Dial	: Aluminum, black graduation on white background
Pointer	: Micrometer zero adjustable, aluminum, black powder coated
Gaskets	: Neoprene
Window	: Shatterproof safety glass

STANDARD SPECIFICATIONS

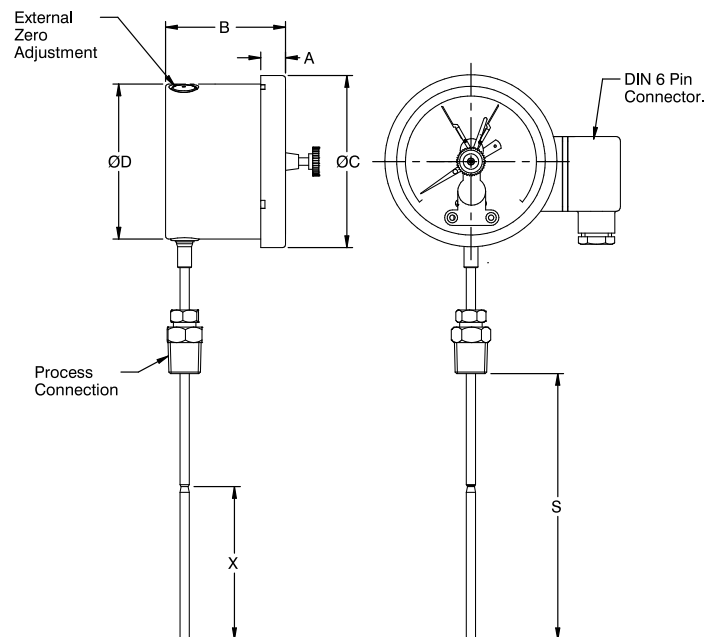
Dial size	: DN100
Range	: 0...100°C
Mounting pattern	: Direct, Bottom connection
Stem size	: 6.0 mm
Ingress protection	: IP 65
Stem length	: 300 mm
Assembly	: Direct
Process connection type	: Adjustable connection
Process connection	: 1/2" NPT (M)
Electric contact	: Double; Break contact + Make contact
Electrical termination	: 4 pin DIN connector

ARD SPECIFICATIONS : DAMPENING LIQUID FILLED, DIELECTRIC OIL

s & Filling plugs	: NBR
ning liquids	: Dielectric Oil

DIMENSIONAL DRAWING

Mounting Pattern: B0

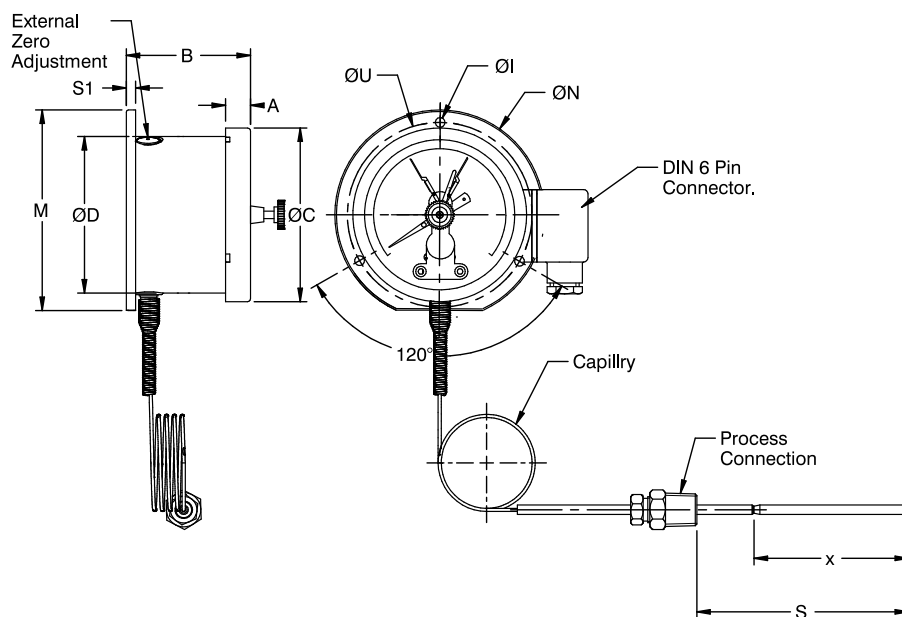


DN	A	B	ØC	ØD	S	X
100	12	91	111	100	*	**
150	15	91	161	149	*	**

* As per customer requirement.

** Refer technical sheet - Temperature Gauges.

Mounting Pattern: B1



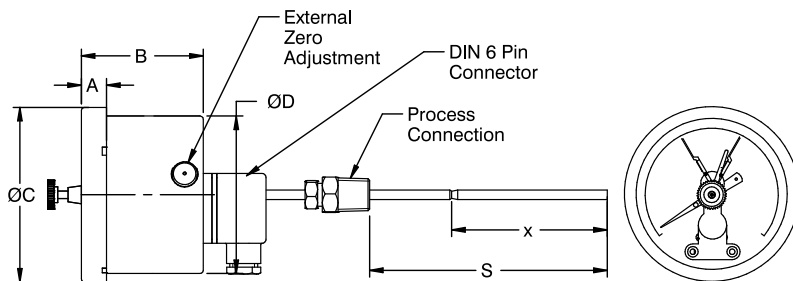
DN	A	B	ØC	ØD	ØI	ØN	M	S1	ØU	S	X
100	12	52	111	100	6	134	128	6	118	*	**
150	15	52	161	149	6	186	172.4	6	168	*	**

* As per customer requirement.

** Refer technical sheet - Temperature Gauges.

DIMENSIONAL DRAWING

Mounting Pattern: R0

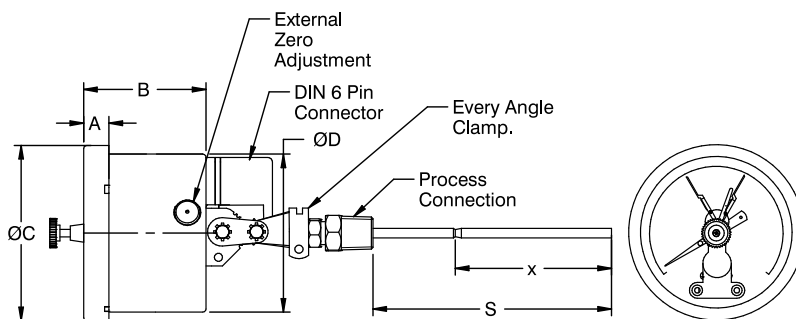


DN	A	B	ØC	ØD	S	X
150	15	91	161	149	*	**

* As per customer requirement.

** Refer technical sheet - Temperature Gauges.

Mounting Pattern: R1

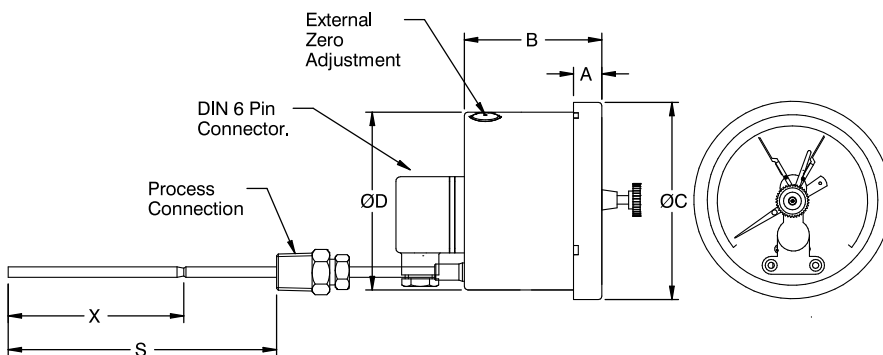


DN	A	B	ØC	ØD	S	X
150	15	91	161	149	*	**

* As per customer requirement.

** Refer technical sheet - Temperature Gauges.

Mounting Pattern: L0

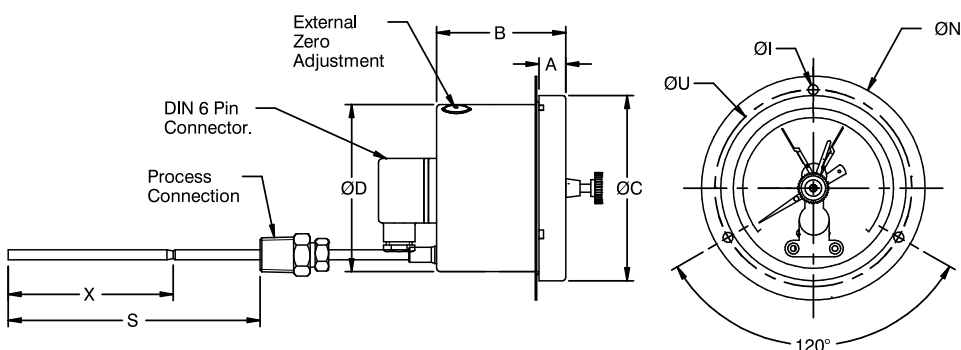


DN	A	B	ØC	ØD	S	X
150	15	91	161	149	*	**

* As per customer requirement.

** Refer technical sheet - Temperature Gauges.

Mounting Pattern: L1



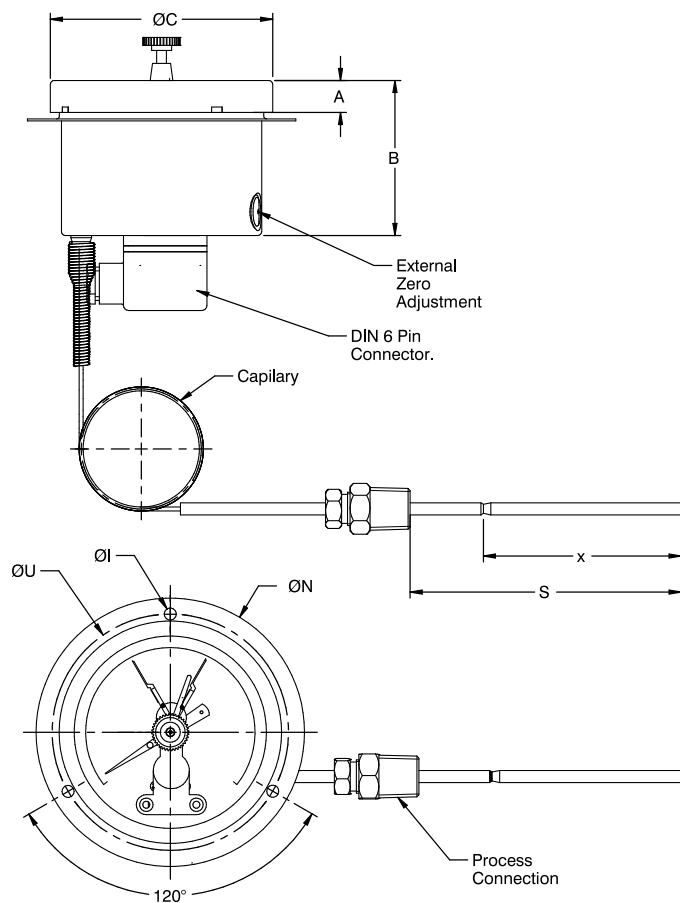
DN	A	B	ØC	ØD	ØI	ØN	ØU	S	X
150	15	48	161	149	6	186	168	*	**

* As per customer requirement.

** Refer technical sheet - Temperature Gauges.

DIMENSIONAL DRAWING

Mounting Pattern: L1



DN	A	B	ØC	ØD	ØI	ØN	ØU	S	X
150	15	48	161	149	6	186	168	*	**

* As per customer requirement.

** Refer technical sheet - Temperature Gauges.

All dimensions are in mm.

RANGE TABLE

RANGE	" °C "	RANGE	" °C "	RANGE	" °C "
-20...+40	C01	-50...+100	C11	0...250	C21
-20...+60	C02	-100...+60	C12	0...300	C22
-20...+80	C03	0...50	C13	0...400	C23
-20...+100	C04	0...60	C14	0...500	C24
-20...+120	C05	0...80	C15	0...600	C25
-20...+180	C06	0...100	C16	0...650	C26
-30...+50	C07	0...120	C17	50...650	C27
-30...+70	C08	0...150	C18	100...600	C28
-40...+40	C09	0...160	C19	100...700	C29
-40...+60	C10	0...200	C20		

NOTES

1. For other ranges, please contact factory.
2. Equivalent scales available in °F, °C/°F, °F/°C.

ORDERING CODES

1. DIAL SIZE				04	11. ARMOUR				XX
04	100 mm / 4"	06	150 mm / 6"		OX	AISI 304SS	OY	AISI 316 SS	
2. RANGE				C16	OZ				XXXXX
XXX	Refer "Range Table"				PVC (Ambient max. 60°C)				
3. MOUNTING PATTERN				B0	12. REMOTE MOUNTING LENGTH				XXXXX
B0	Direct, Bottom connection				XXXXX	250 mm up to 10,000 mm			
B1	Wall/Surface/Projection mounting, Bottom connection			XXXXX	10,000 mm up to 25,000 mm				
B2	2" Pipe/Yoke mounting, Bottom connection			13. SWITCH CATEGORY					
R0	Centre Back connection			RS	RS	Precision contacts			
R1	Every Angle mounting, Centre Back connection				RT	ATEX/CE approved contacts			
L0	Lower, Back connection			14. ELECTRIC CONTACT					
L1	Panel/Front flange mounting, Lower Back connection			CD1	CD1	Break contact (1NC)			
L2	Panel/bracket mounting, Lower Back connection				CD2	Make cotact (1NO)			
4. STEM DIAMETER				M60	CD3	2 x Break contact (2NC)			
M60	6.0 mm	I14	¼" (6.35 mm)		CD4	2 x Make contact (2NO)			
M80	8.0 mm	M95	9.5 mm	CD5	1 Break + 1 Make (1NC+1NO)				
M10	10 mm	M12	12 mm	CD6	1 Make + 1 Break (1NO+1NC)				
5. INGRESS PROTECTION				ER	CD7	SPDT			
ER	IP 65	ES	IP 66		CD8	DPDT			
ET	IP 67			CI1	Break contact (1NC)				
6. STEM LENGTH				300	CI2	Make cotact (1NO)			
XXXX	Up to 2000 mm (Confirm factory before ordering)				CI3	2 x Break contact (2NC)			
7. PROCESS CONNECTION TYPE				KW	CI4	2 x Make contact (2NO)			
KX	Fixed connection				CI5	1 Break + 1 Make (1NC+1NO)			
KW	Adjustable connection			CI6	1 Make + 1 Break (1NO+1NC)				
BW	Swivel / Revolving connection			CI9	Booster relay for current up to 5A				
8. PROCESS CONNECTION				14N	15. OTHER OPTIONS				
14N	½" NPT (M)	14B	½" BSP (M)		BA	Case & Ring in AISI 316 SS (B0)			
12N	¼" NPT (M) ⁴	12B	¼" BSP (M) ⁴	BB	Case & Ring in AISI 316 SS (B1)				
14M	M20 X 1.5 mm (M)	13B	3/8" BSP (M) ⁵	BC	Case & Ring in AISI 316 SS (B2)				
9. ASSEMBLY				B8	BG	Case & Ring in AISI 316 SS (R0)			
B8	Direct (Stem type)				BH	Case & Ring in AISI 316 SS (R1)			
B9	Remote (Capillary type)			BK	Case & Ring in AISI 316 SS (L0)				
10. CAPILLARY				XX	BL	Case & Ring in AISI 316 SS (L1)			
OU	AISI 304SS	OV	AISI 316 SS		BM	Case & Ring in AISI 316 SS (L2)			
				E9	Helium gas filled system				
				RA	Rubber parts, Viton				
				RN	Rubber parts, NBR				
				TA	5 - point factory calibration certificate				
				TM	Material test certificate 2.2				
				XF	SS tag plate, AISI 304 SS				
				XG	SS tag plate, AISI 316 SS				
				XT	Dial tag marking				
				XR	Custom designed dial				
				G6	6 pin, M20x1.5mm connector				

Ordering Example : T703-04-C16-B0-M60-ER-300-KW-14N-B8-XX-XX-XXXXX-XX-CD1

NOTES

- 1/4" connections are available up to 1/4" (6.35 mm) stem diameters only.
- 3/8" connections are available up to 10 mm stem diameters only.
- Economic contacts & Precision contact are available in Electric contact types CS1...CS6 & CD1
- ATEX / CE approved contacts are available in Electric contact type CI1...CI6.

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