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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

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INDUSTRIAL BIMETAL THERMOMETER

T501

STANDARD PARAMETERS

Accuracy	: CL 1.0 (Class 1)
Ambient temperature	: -20... +60°C
Over range limits	: 110% full scale
Stem pressure rating	: 25 bar (Without thermowell)
Weld joints	: TIG argon arc welding

MATERIAL OF CONSTRUCTION

Sensing element	: Coiled bimetal strip
Case & Ring material	: AISI 304 SS
Stem & Process connection material	: AISI 316 SS
Dial	: Aluminum, black graduation on white background
Pointer	: Slotted zero adjustable, aluminum, black powder coated (Fix pointer for DN50)
Gaskets	: NBR
Window	: Sheet glass

STANDARD SPECIFICATIONS

Dial size	: DN50 / DN 63 / DN80 / DN100 / DN125 / DN150
Range	: -80...0...400 °C / -110...0...752 °F
Mounting pattern	: Direct Bottom connection
Stem size	: 6.0 mm
Ingress protection	: IP 65
Stem length	: 25 mm to 1500 mm*
Process connection type	: Adjustable connection
Process connection	: ½" NPT (M) / ½" BSP (M)

STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED, GLYCERIN

Gaskets & Filling plugs	: NBR
Dampening liquids	: Glycerin 99.7% (-20°C to 65°C) [Up to range 100°C]
Window	: Shatterproof safety glass

STANDARD SPECIFICATIONS : DAMPENING LIQUID FILLED, SILICON

Gaskets & Filling plugs	: NBR
Dampening liquids	: Silicon oil [Up to range 200°C]
Window	: Shatterproof safety glass

* Depending on range & stem diameter



FEATURES

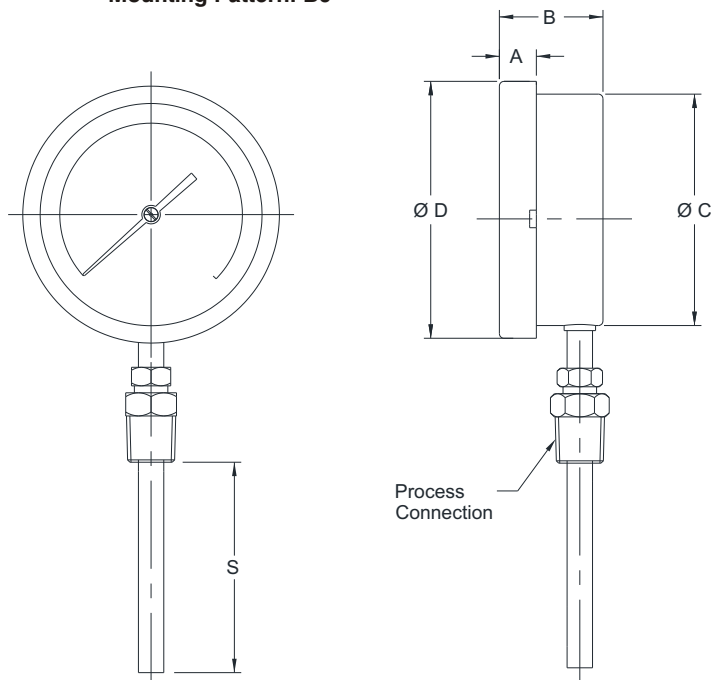
- Bimetal helix system
- Hermetically sealed
- Stem length max 1.5 Mtr
- Optional External Zero adjustment
- ATEX approved

APPLICATION

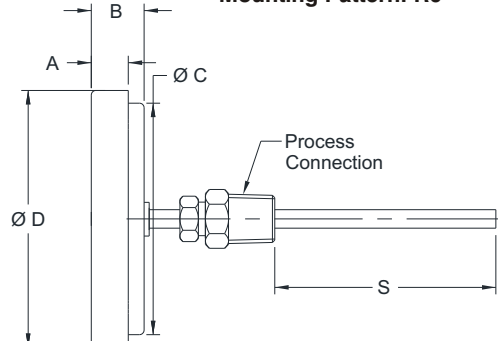
- Chemical & Petrochemical
- Food & Beverages
- Nuclear power plants

DIMENSIONAL DRAWING

Mounting Pattern: B0



Mounting Pattern: R0



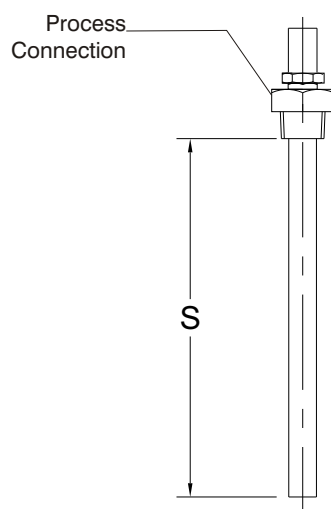
NS	A	B	ØC	ØD	S	Weight (gram)
63	12	48	62.5	70	*	280
80	9.5	48	80	89.5	*	350
100	12	48	100	111	*	500
125	15	48	118.5	129	*	580
150	15	48	149	161	*	800

NS	A	B	ØC	ØD	S	Weight (grams)
50	6.5	23	51.5	57.5	*	108
63	10	23	62.5	70	*	156
80	9.5	23	80	89.5	*	244
100	12	23	100	111	*	518
125	15	23	118.5	129	*	585
150	15	23	149	161	*	625

All dimensions are in mm.

* As per customer requirement.

STEM LENGTH CHART



Stem Diameter	6 mm & 1/4"	8 mm	10 mm	12 mm
Range (°C)	Min. Stem Length (mm)			
0...50	130	110	110	110
0...60	110	95	95	95
0...80	95	70	70	70
0...100	75	70	70	70
0...120	70	60	60	60
0...150	60	50	50	50
0...200	50	45	45	45
0...250	40	35	35	35
0...300	60	50	50	50
0...400	50	45	45	45

1. All length mentioned above are to be considered below thread only.
2. For other reduced length, contact factory before ordering.

NOTES

1. DN50 is available in Centre back connection (R0) only.
2. Equivalent scales available in °F, °C/°F, °F/°C. Please contact factory for details.

ORDERING CODES

1. DIAL SIZE		04	7. PROCESS CONNECTION TYPE		KW		
02	50 mm / 2"		KX	Fixed connection			
25	63 mm / 2½"		KW	Adjustable connection			
03	80 mm / 3"		BW	Swivel / Revolving connection			
04	100 mm / 4"						
05	125 mm / 4½"						
06	150 mm / 6"						
2. RANGE		C16	8. PROCESS CONNECTION		14N		
XXX	Refer "Range Table"		14N	½" NPT (M)			
3. MOUNTING PATTERN		B0	14B	½" BSP (M)	XX		
B0	Direct, Bottom connection		12N	¼" NPT (M) ³			
R0	Centre, Back connection		12B	¼" BSP (M) ³			
			14M	M20 X 1.5 mm (M)			
4. STEM DIAMETER		M60	13B	3/8" BSP (M) ⁴			
M60	6.0 mm		T15	1.5" Triclover			
I14	¼" (6.35 mm)		15N	¾" NPT (M)			
M80	8.0 mm		15B	¾" BSP (M)			
M95	9.5 mm		04N	½" NPT (F)			
M10	10 mm		05N	¾" NPT (F)			
M12	12 mm		16M	M27 X 2.0 mm (M)			
5. INGRESS PROTECTION		ER	9. OTHER OPTIONS				
ER	IP 65		BA	Case & Ring in AISI 316 SS (B0)			
ES	IP 66		BG	Case & Ring in AISI 316 SS (R0)			
ET	IP 67		GC	Shatterproof safety glass			
EU	Hermetically sealed		GZ	External zero adjustment			
6. STEM LENGTH			150	OA	Dampening liquid, silicon oil (200°C)		
XXXX	Up to 1,500 mm	RA		Rubber parts, Viton			
		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			
			EG	Dampening liquid, glycerin (65°C)			

Ordering Example : T501-04-C16-B0-M60-ER-150-KW-14N

RANGE TABLE

RANGE(°C)	CODE	RANGE(°C)	CODE	RANGE(°C)	CODE
-20...+40	C01	0...50	C13	0...200	C20
-20...+60	C02	0...60	C14	0...250	C21
-30...+70	C08	0...80	C15	0...300	C22
-30...+120	C05	0...100	C16	0...400	C23
-50...+100	C11	0...120	C17		
-80...+120	C12	0...150	C18		

NOTES

- For other connections, please contact factory.
- DN50 is available in Centre back connection (R0) only.
- 1/4" connections are available up to 1/4" (6.35 mm) stem diameter only.
- 3/8" connections are available up to 10 mm stem diameter only.

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