Process industry bimetal thermometer
Model : T120

Spec. sheet no. TD01-05

Service intended
Bimetal thermometer is used for measuring temperature of gas or fluid. It is suitable for measurement, regulation, and direct monitoring for the fluid. It meets the most stringent criteria on resistance to a corrosive atmosphere and exceptional climatic circumstances.

Nominal diameter
75 and 100 mm

Accuracy
±2.0% of full scale

Temperature element
Coiled bimetal

Working range
Maximum scale value

Standard features

Location of stem
Bottom connection, direct

Case
304SS

Cover
304SS

Window
Glass

Dial
White aluminium with black graduations

Pointer
Black painted aluminium alloy

Stem
6.0, 6.4, 8.0 and 10.0 mm diameter
304SS, 316SS and 316L SS
Max. Insertion length : 2,000 mm

Zero adjustment
Internal

Stem, process connection
¼", ⅜", ½", ¾" PT, NPT and PF

Optional
±1.0% of full scale

1. Base model

T120	Process industry bimetal thermometer

2. Nominal diameter (mm)

3	75
4	100

3. Type of mounting

W	Bottom connection, direct

4. Stem material

0	304SS
1	316SS
2	316L SS

5. Stem, process connection

A	None
C	¼"
D	⅜"
E	½"
F	¾"
G	1½S (Sanitary only)
H	2S (Sanitary only)
I	2½S (Sanitary only)

6. Stem connection type (CF: Compression fitting)

A	None
B	PF
C	PT
D	NPT
E	CF + PT
F	CF + NPT
G	CF + PF
H	MT + PT (Movable thread)
I	MT + NPT (Movable thread)
J	MT + PF (Movable thread)
S	Clamp (Sanitary type flange)

7. Stem outer diameter (mm)

0	6.0
1	6.4
2	8.0
3	10.0 (Not available process connection, ¼")

8. Range

XXX	Refer to scale range table

9. Insertion length

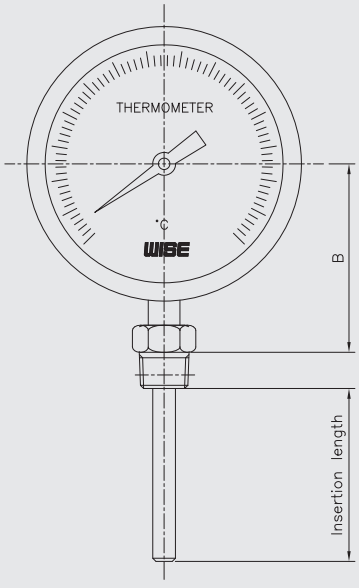
X	Refer to insertion length table

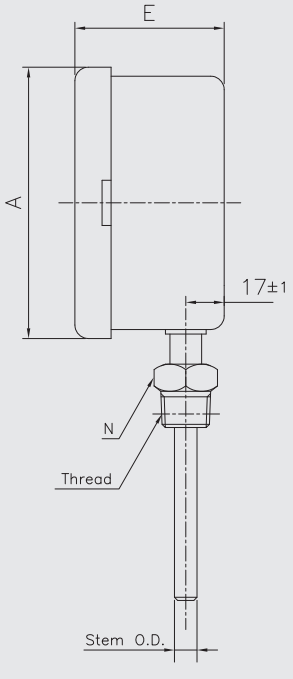
10. Accessories

0	None
1	Thermowell
2	Special accuracy (±1.0% of full scale)
3	Thermowell and special accuracy

1	2	3	4	5	6	7	8	9	10	
T120	**4**	**W**	**0**	**E**	**C**	**1**	**XXX**	**X**	**1**	**Sample ordering code**

T120 : Type of mounting





Dimensions (mm)

Dial Size	A	B±2	E±2	N
75	86.5	64	43	22x25.4 HEX
100	111	75	50.5	22x25.4 HEX

Scale ranges

Code	Scale range (℃)	Scale spacing (℃)	Minimum stem length (mm)	
			6.0 and 6.4	8.0 and 10.0
032	-50 ~ 50	2	55	50
037	-50 ~ 100	2	45	35
054	-30 ~ 50	2	70	60
059	-30 ~ 100	2	50	45
061	-30 ~ 120	2	45	35
069	-20 ~ 50	2	80	70
074	-20 ~ 100	2	45	45
079	-20 ~ 150	5	40	35
084	-10 ~ 50	1	95	80
099	0 ~ 50	1	110	70
100	0 ~ 60	1	95	80
101	0 ~ 70	2	80	60
102	0 ~ 80	2	70	55
104	0 ~ 100	2	55	50
106	0 ~ 120	2	50	45
109	0 ~ 150	2	45	35
114	0 ~ 200	5	35	35
119	0 ~ 250	5	35	30
124	0 ~ 300	5	35	25
129	0 ~ 350	5	30	25
134	0 ~ 400	5	80	65
144	0 ~ 500	10	70	60
154	0 ~ 600	10	70	60

Insertion length

Code	1	2	3	4	5	6	7	8	9	A	B	C
Length (mm)	50	60	70	80	100	120	130	150	175	200	225	250

Code	D	E	F	G	H	J	K	L	M	N	P
Length (mm)	275	300	350	375	400	450	500	550	1,000	1,500	2,000