INDUSTRIAL BIMETAL THERMOMETER
Model : T110

Spec. sheet no. TD01-01

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
50, 65, 75, 100, 125 and 150 mm

Accuracy
±2.0 % of full scale

Temperature element
Coiled bimetal

Working range
Maximum scale value

Max. allowable pressure at stem
Under normal static conditions, the stem is designed to withstand up to 2 MPa (20 bar).
However, depending on installation conditions such as vibration, flow velocity, or pressure fluctuations, the use of a thermowell is recommended in high-temperature or high-pressure environments.

Standard features

Location of stem
Center back connection, direct

Case
304SS

Cover
304SS

Window
Glass

Dial
Metallic silver 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

Option
±1.0 % of full scale
Not available with diameter 50 and 65 mm

Certificates
II 2G Ex h IIC T6…T1 Gb /
II 2D Ex h IIIC T85°C…T450°C Db

Main order — Ordering information

1. Base model

T110	Industrial bimetal thermometer

2. Norminal diameter (mm)

1	50
2	65
3	75
4	100
5	125
6	150

3. Type of mounting

X	Center back 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 (Only available with sanitary)
H	2S (Only available with sanitary)
I	2½S (Only available with sanitary)

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), Not available with diameter 50 and 65 mm
I	MT + NPT (Movable thread), Not available with diameter 50 and 65 mm
J	MT + PF (Movable thread), Not available with diameter 50 and 65 mm
S	Clamp (Sanitary type flange), Not available with diameter 50 and 65 mm

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

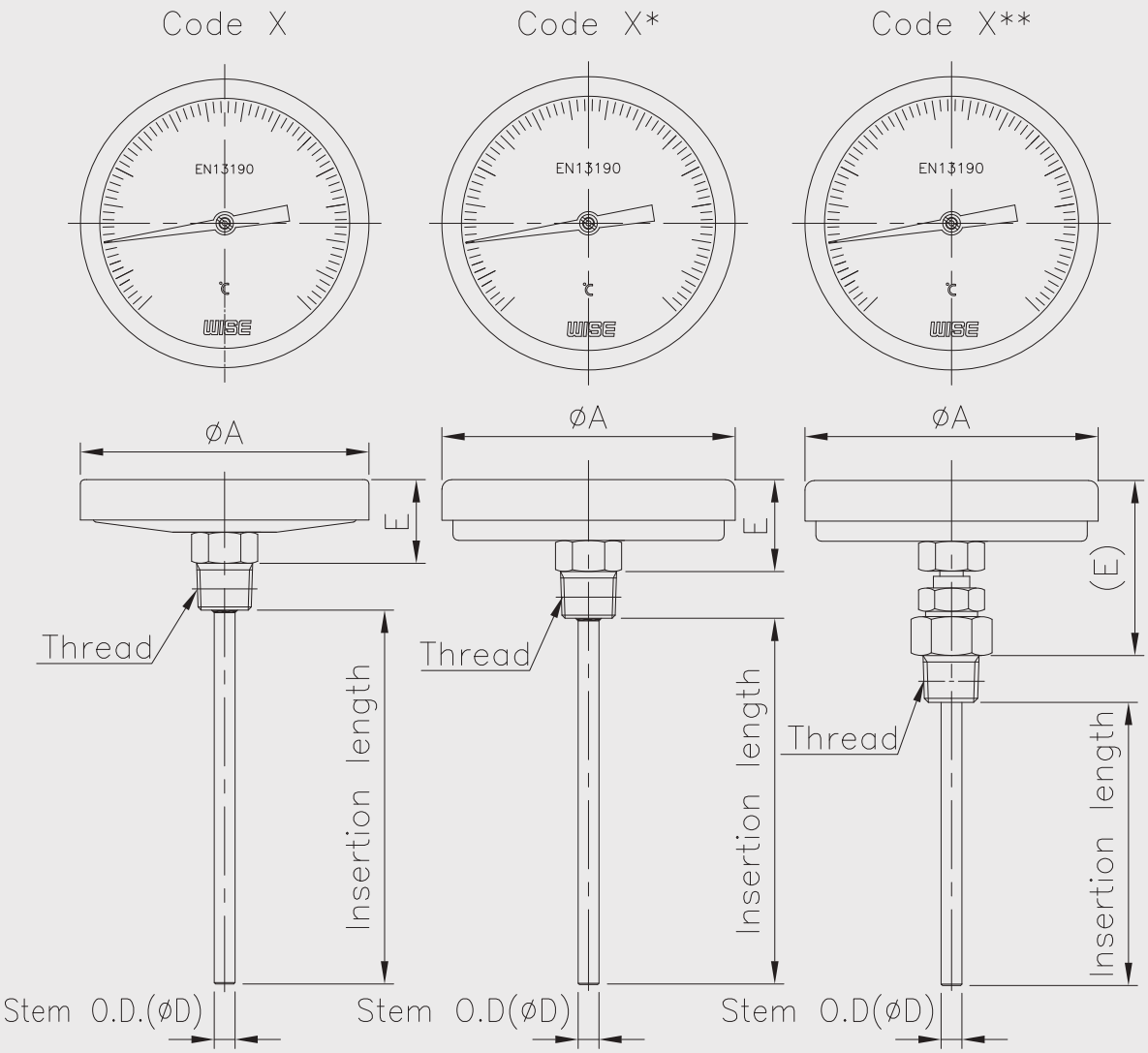
0	None
1	Thermowell
2	Special accuracy (±1.0% of full scale)
3	Thermowell and special accuracy

Sample ordering code

1	2	3	4	5	6	7	8	9	10
T110	**3**	**X**	**0**	**E**	**D**	**1**	**XXX**	**X**	**1**

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T110 : Type of mounting



Dimensions (mm)

Dial Size	Available code	A	E±2
50	X	50	23.5
65	X	65	28.5
75	X	86.5	28
	X**	86.5	43
100	X	111	32
	X**	111	42
125	X	137.5	30
	X**	137.5	44
150	X*	169.5	43
	X**	169.5	51

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

* Dial size 50, 65 mm : Minimum stem length 60 mm

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