

Remote reading aluminium case thermometer with electrical contact

Model : T711(H), T712(H/L), T713(L), T714(H/HH)

Spec. sheet no. **TD07-01**

Service intended

Contact type temperature gauge is installed with electric contact actuated by pointer. It provides the function which electrical circuit can be opened or closed by manual setpoint. It is applicable where signal is required (Audible or visual alarm) for control of resistance or any other application with auxiliary relay and contact.



Nominal diameter

100 and 150 mm

Accuracy

±2.0% of full scale

Measuring system (SAMA class IIIB)

Organic gas : 0 ~ 200°C

Inert gas : -200 ~ 700°C

Working range

Maximum scale value



Standard features

Location of stem and mounting

Bottom connection, surface, case mounting

Lower back connection, flush, case lower mounting

Lower back connection, flush, case centre mounting

Case

Black finished aluminium

Cover

Black finished aluminium

Capillary

Capillary : 1.6/0.2 mm, 316SS

Armored tube : 7.5/5.5 mm, 304SS

Window

Acrylic

Dial

White aluminium with black graduation

Contacts

Maximum voltage : 250 V AC

Contact rating : AC 220 V, 0.25 A

DC 100 V, 0.5 A

With max. no of contact : 2 sets per gauge

Pointer

Black finished brass

Stem

8.0, 10.0 and 12.0 mm

316SS and 316L SS

Stem, process connection

$\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " PT, NPT and PF

Optional

±1.0% of full scale

1. Base model

- T711** Remote reading aluminium case thermometer with electric contact (High alarm)
- T712** Remote reading aluminium case thermometer with electric contact (High and low alarm)
- T713** Remote reading aluminium case thermometer with electric contact (Low alarm)
- T714** Remote reading aluminium case thermometer with electric contact (High and high alarm)

2. Nominal diameter (mm)

- 4** 100
- 6** 150

3. Type of mounting

- B** Bottom connection, surface, case mounting plate
- K** Lower back connection, flush, case lower mounting plate, not available with diameter 150 mm
- L** Lower back connection, flush, case center mounting plate, not available with diameter 150 mm

4. Stem material

- 1** 316SS
- 2** 316L SS

5. Stem, process connection

- A** None
- D** $\frac{3}{8}$ "
- E** $\frac{1}{2}$ "
- F** $\frac{3}{4}$ "

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)

7. Stem outer diameter (mm)

- 2** 8.0
- 3** 10.0
- 4** 12.0 (Standard)

8. Range

- XXX** Refer to scale range table

9. Capillary length

- P** 2 metre
- Q** 3 metre
- S** 5 metre
- V** 8 metre
- X** 10 metre
- Z** Other

10. Accessories

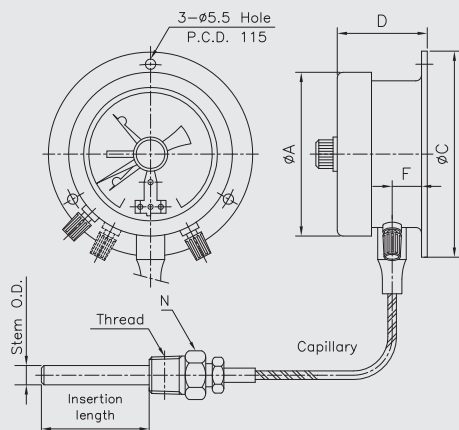
- 0** None
- 1** Thermowell
- S** Special accuracy ($\pm 1.0\%$ of full scale)
- T** Thermowell and special accuracy

1	2	3	4	5	6	7	8	9	10
T711	4	B	1	E	C	3	XXX	P	1

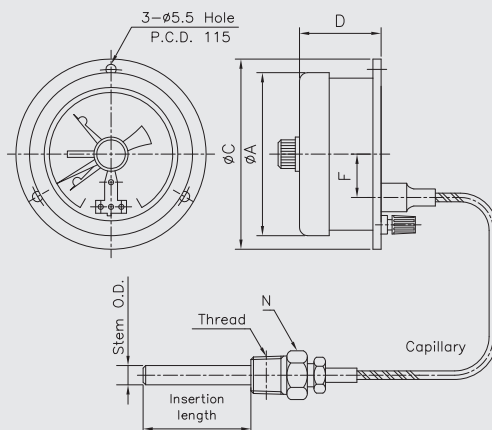
Sample
ordering code

T71X : Type of mounting

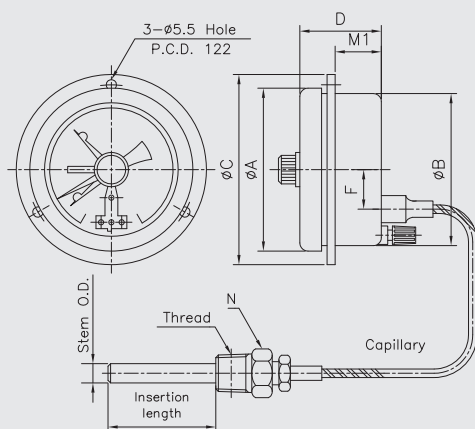
Code B



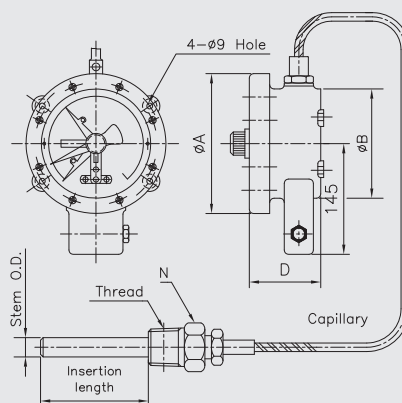
Code K



Code L



Code B*



Dimensions (mm)

Dial Size	Available code		A	B	C	D±2	F±1	M1	N
100	T711,T713	B	110		128	83.7	20.5		27x31.2 HEX
	T712,T714		110		128	83.7	20.5		27x31.2 HEX
	T711,T713	K	110		128	83.7	25		27x31.2 HEX
	T712,T714		110		128	83.7	25		27x31.2 HEX
	T711,T713	L	110	105	135	83.7	25	32	27x31.2 HEX
	T712,T714		110	105	135	83.7	25	32	27x31.2 HEX
150	T711,T713	B*	186	158		90			27x31.2 HEX
	T712,T714		186	158		90			27x31.2 HEX

Scale ranges

Code	Scale range (°C)	Scale spacing(°C)	Minimum stem length (mm)			Standard stem length (mm)		
			8.0	10.0	12.0	8.0	10.0	12.0
032	-50 ~ 50	2	100	85	65	200	130	130
037	-50 ~ 100	5	100	88	65	200	130	130
054	-30 ~ 50	2	100	85	65	200	150	150
059	-30 ~ 100	2	100	85	65	200	130	130
061	-30 ~ 120	5	100	85	65	200	130	130
069	-20 ~ 50	2	100	85	65	200	130	130
074	-20 ~ 100	2	100	85	65	200	130	130
079	-20 ~ 150	5	100	85	65	200	130	130
084	-10 ~ 50	1	100	85	65	200	130	210
099	0 ~ 50	1	100	85	65	200	130	210
100	0 ~ 60	1	100	85	65	200	130	190
101	0 ~ 70	2	100	85	65	200	130	130
102	0 ~ 80	2	100	85	65	200	130	130
104	0 ~ 100	2	100	85	65	200	130	130
106	0 ~ 120	2	100	85	65	200	130	130
109	0 ~ 150	5	100	85	65	200	130	130
114	0 ~ 200	5	100	85	65	200	130	130
119	0 ~ 250	5	100	85	65	200	130	130
124	0 ~ 300	5	100	45	40	200	130	130
129	0 ~ 350	5	100	45	40	200	130	130
134	0 ~ 400	10	100	45	40	200	130	130
144	0 ~ 500	10	100	45	40	200	130	130
154	0 ~ 600	10	100	45	40	200	130	130
164	0 ~ 700	10	100	45	40	200	130	130

* 0 ~ 700°C/Special range

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