

Direct reading aluminium case thermometer with electrical contact

Model : T721(H), T722(H/L), T723(L), T724(H/HH)

Spec. sheet no. TD07-02

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 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

Bottom connection, surface, case mounting
Lower back connection, direct

Case

Black finished aluminium

Cover

Black finished aluminium

Capillary

Capillary : 1.6/0.2 mm, 316SS

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 aluminium

Stem

8.0, 10.0 and 12.0 mm

316SS and 316L SS

Stem, process connection

3/8", 1/2", 3/4" PT, NPT and PF

Option

±1.0 % of full scale

1. Base model

- T721** Direct reading aluminium case thermometer with electric contact (High alarm)
- T722** Direct reading aluminium case thermometer with electric contact (High and low alarm)
- T723** Direct reading aluminium case thermometer with electric contact (Low alarm)
- T724** Direct reading aluminium case thermometer with electric contact (High and high alarm)

2. Nominal diameter (mm)

- 4** 100

3. Type of mounting

- B** Bottom connection, surface, case mounting plate
- G** Lower back connection, direct

4. Stem material

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

5. Stem, process connection

- A** None
- D** 3/8"
- E** 1/2"
- F** 3/4"

6. Stem connection type (CF: Compression fitting)

- A** None
- 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
- Z** Other

8. Range

- XXX** Refer to scale range table

9. Insertion length

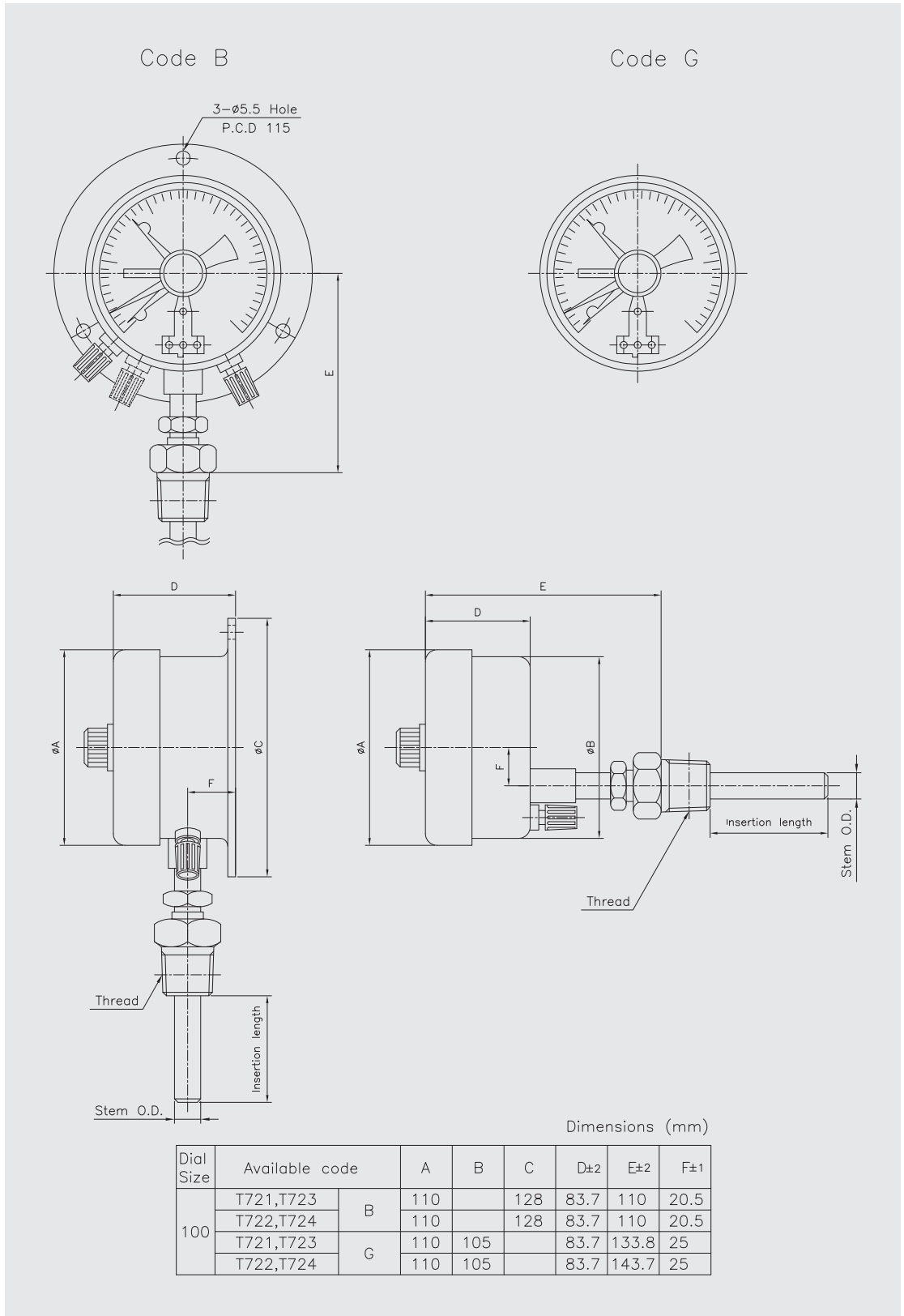
- X** Refer to insertion length table

10. Accessories

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

| | | | | | | | | | | |
|------|---|---|---|---|---|---|-----|---|----|-------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Sample ordering code |
| T721 | 4 | B | 1 | E | C | 3 | XXX | X | 1 | |

T72X : Type of mounting



Scale ranges

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

* 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 |