

# Direct reading thermometer with adjustable stem

## Model : T290

Spec. sheet no. TD02-13

### Service intended

This thermometer is used for measuring temperature of corrosive and non-corrosive fluid in all industries. It operates in aggressive and non-aggressive environment. Linear dials and temperature compensate line assure an accurate temperature indication at varying ambient conditions.

EAC

### Nominal diameter

100 and 150 mm

### Accuracy

±2.0 % of full scale

### Measuring system (SAMA class III B)

Organic gas : 0 ~ 200 °C

Inert gas : -200 ~ 700 °C

### Working range

Maximum scale value



## Standard features

### Location of stem

Lower back with adjustable stem

### Pointer

Black painted aluminium alloy

### Case

304SS, Adjustable on stem 90°

### Stem

8.0, 10.0 and 12.0 mm

316SS and 316L SS

### Cover

304SS

### Zero adjustment

Internal

### Window

Tempered safety glass

### Stem, process connection

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

### Dial

White aluminium with black graduation

### Stem connection type

Movable thread

### Option

±1.0 % of full scale

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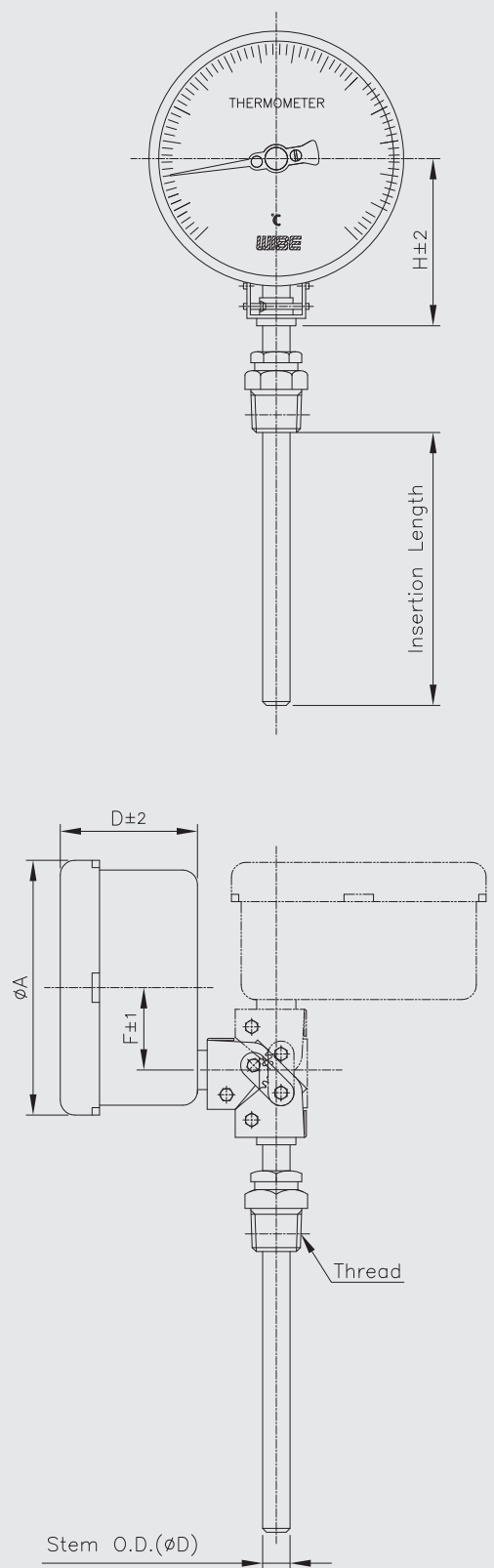
**1. Base model****T290** Direct reading thermometer with adjustable stem**2. Nominal diameter (mm)****4** 100**6** 150**3. Type of mounting****Y** Lower back with adjustable stem**4. Stem material****1** 316SS**2** 316L SS**5. Stem, process connection****A** None**D**  $\frac{3}{8}$ "**E**  $\frac{1}{2}$ "**F**  $\frac{3}{4}$ "**6. Stem connection type (CF: Compression fitting)****A** None**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**S** Special accuracy ( $\pm 1.0$  % of full scale)**T** Thermowell and special accuracy**Sample ordering code**

|      |   |   |   |   |   |   |     |   |    |
|------|---|---|---|---|---|---|-----|---|----|
| 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8   | 9 | 10 |
| T290 | 4 | Y | 1 | E | C | 3 | XXX | X | 1  |



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T290 : Type of mounting



Dimensions (mm)

| Dial Size | A     | D    | F  | H   |
|-----------|-------|------|----|-----|
| 100       | 111   | 48.5 | 25 | 75  |
| 150       | 168.5 | 62.5 | 56 | 104 |

## Scale ranges

| Code | Scale range (°C) | Scale spacing (°C) | Minimum stem length (mm) |      |      |
|------|------------------|--------------------|--------------------------|------|------|
|      |                  |                    | 8.0                      | 10.0 | 12.0 |
| 031  | -200 ~ 100       | 5                  | 500                      | 500  | 500  |
| 032  | -50 ~ 50         | 2                  | 100                      | 85   | 65   |
| 037  | -50 ~ 100        | 5                  | 100                      | 85   | 65   |
| 054  | -30 ~ 50         | 2                  | 100                      | 88   | 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

\* -200 ~ 100 °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 |