Sanitary resistance temperature detector

Model: R231 single element R232 double element

Spec. sheet no. RD02-04

Service intended

Sanitary RTDs can measure temperature from -50 to 200 °C. These sensors are available in Tri-clamp design with the immersion length from 50 to 250 mm. The wetted part of this assembly is polished to exceed No.4 minimum finish which is required by 3-A sanitary council standard #74-06.



Element

Pt 100 Ω at 0 °C TCR: 3,850 ppm/k

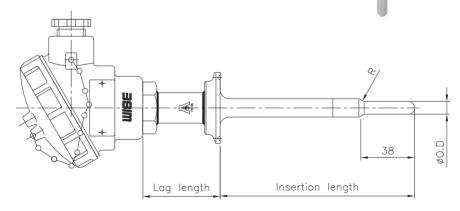
Tolerances on temperature reading

Class A: $\pm (0.15 + 0.002 | t|)$ Class B: $\pm (0.3 + 0.005 | t|)$ * t : Reading temperature (°C)

Element and lead wire configurations

Single element: 2, 3 and 4 wire Double element: 4 and 6 wire

Outline drawing



Standard features

Head type

Weatherproof (304SS)

Process connection

Tri - clamp connection 1, 11/2 and 2S

Stem material

304SS, 316SS



Main order

Ordering information

1. Base model

- R231 Sanitary resistance temperature detector (Single element)
- R232 Sanitary resistance temperature detector (Double (Duplex) element)

2. Head type

- Α General (Weatherproof)
- Р Other

3. Element (Tolerance)

- Q Pt 100 Ω (B)
- Pt 100 Ω (A) 9

4. Insertion material

- 0 304SS
- 1 316SS
- Other

5. Insertion outer diameter (mm)

- F9 6.4
- G9 8.0
- J9 10.0
- K9 12.0

6. Conduit connection

- 1/2" PF 1
- ½" PT 2
- 3 1/2" NPT
- 4 3/4" PF
- 5 34" PT
- 6 34" NPT
- 7 None
- 8 M20 x 1.5P
- 9 Other

7. Lag length (mm)

- G
- Н 100
- 150 J

8. Connection size and material

- Т 1S and 316SS
- ٧ 11/2S and 316SS
- W 2S and 316SS

9. Connection type Tri - clamp

10. Insert length (mm)

- 100 Α
- В 200
- С 300
- D 400
- Ε 500
- F 600
- G 700
- 800 н
- J 900
- Κ 1,000

11. Option

- None 0
- Accessories

1 R231 2

3 Q 4

5 F9 6

7

8

9

10

11 Sample ordering code