

FROST GUARD SENSOR TEV PT 100

TEV Pt 100 temperature sensor is designed for automatic HVAC systems for monitoring air-heating radiators against frost.

Temperature is detected by a Pt 100 element with a nominal resistance of 100 ohm / 0 °C.

Sensor stem is made of stainless steel for prolonged life.

Sensor is installed to the radiator by means of a joint with R1/4" thread. Mounting depth can be adjusted to max. 210 mm.

Time constant of the sensor is about 2,5 seconds.



Technical data:

| | |
|-----------------|--------------------|
| Sensor | PT 100 EN60751B |
| Mounting | R 1/4" thread |
| Stem | 4 mm x 200 mm |
| Connecting cord | Ø 2,8 mm x 2 m |
| Range | -50...120 °C |
| Accuracy | ± 0,3 °C (at 0 °C) |
| Time constant | about 2,5 s |
| Pressure rating | PN 16 |

Temperature / resistance -table:

| LT °C | PT 100 Ω | LT °C | PT 100 Ω |
|-------|----------|-------|----------|
| 120 | 146.06 | 25 | 109.73 |
| 100 | 138.50 | 20 | 107.79 |
| 90 | 134.70 | 15 | 105.85 |
| 80 | 130.89 | 10 | 103.90 |
| 75 | 128.98 | 5 | 101.95 |
| 70 | 127.07 | 0 | 100.00 |
| 65 | 125.16 | -5 | 98.04 |
| 60 | 123.24 | -10 | 96.09 |
| 55 | 121.32 | -15 | 94.12 |
| 50 | 119.40 | -20 | 92.16 |
| 45 | 117.47 | -25 | 90.19 |
| 40 | 115.54 | -30 | 88.22 |
| 35 | 113.61 | -40 | 84.27 |
| 30 | 111.67 | -50 | 80.31 |

Ordering guide:

| Model | Product number | Description |
|---------------|----------------|---|
| TEV Pt100 | 1173020 | frost guard sensor 100 ohm / 0 °C |
| TEV Pt100-400 | 1173021 | frost guard sensor 100 ohm / 0 °C length 400 mm |

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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