

## FROST GUARD SENSOR TEV NTC 10-AN

TEV NTC 10-AN temperature sensor is designed for automatic HVAC systems to detect heating coil temperatures (= return water).

Temperature is detected by a NTC sensor element with a nominal resistance of 10 kΩ at 25 °C.

Sensor stem is made of acid proof steel.

Sensor is installed to the coil by using a joint with R1/4" thread. Mounting depth can be adjusted up to 200 mm.

### Sensor resistance at different temperatures:

| °C  | Ω    | °C  | Ω       |
|-----|------|-----|---------|
| 120 | 483  | 25  | 10 000  |
| 100 | 817  | 20  | 12 268  |
| 90  | 1084 | 15  | 15 136  |
| 80  | 1458 | 10  | 18 787  |
| 75  | 1700 | 5   | 23 462  |
| 70  | 1990 | 0   | 29 490  |
| 65  | 2339 | -5  | 37 316  |
| 60  | 2760 | -10 | 47 549  |
| 55  | 3271 | -15 | 61 030  |
| 50  | 3893 | -20 | 78 930  |
| 45  | 4656 | -25 | 102 890 |
| 40  | 5594 | -30 | 135 233 |
| 35  | 6754 | -40 | 239 831 |
| 30  | 8197 | -50 | 441 667 |



### Technical data:

|                 |                           |
|-----------------|---------------------------|
| sensor          | NTC 10-AN, 10 kΩ at 25 °C |
| mounting        | R 1/4" thread             |
| stem            | Ø 4 mm x 200 mm           |
| connecting cord | Ø 2.8 mm x 2 m            |
| range           | -50...+120 °C             |
| accuracy        | ±0.25 °C (at 25 °C)       |
| time constant   | ca 2.5 s                  |
| pressure rating | PN16                      |
| materials       | acid proof steel          |

### Ordering guide:

| Model         | Product number | Description                          |
|---------------|----------------|--------------------------------------|
| TEV NTC 10-AN | 117H020        | frost guard sensor<br>10 kΩ at 25 °C |

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