

## FROST GUARD SENSOR TEV NI 1000

TEV NI 1000 temperature sensor is designed for automatic HVAC systems to detect heating coil temperatures (= return water).

Temperature is detected by a Ni sensor element with a nominal resistance of 1 k $\Omega$  at 0 °C. Sensor stem is made of stainless 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  | $\Omega$ | °C  | $\Omega$ |
|-----|----------|-----|----------|
| 120 | 1760     | 25  | 1141     |
| 100 | 1618     | 20  | 1112     |
| 90  | 1549     | 15  | 1084     |
| 80  | 1483     | 10  | 1056     |
| 75  | 1450     | 5   | 1028     |
| 70  | 1417     | 0   | 1000     |
| 65  | 1385     | -5  | 973      |
| 60  | 1353     | -10 | 946      |
| 55  | 1322     | -15 | 919      |
| 50  | 1291     | -20 | 893      |
| 45  | 1260     | -25 | 867      |
| 40  | 1230     | -30 | 842      |
| 35  | 1200     | -40 | 791      |
| 30  | 1171     | -50 | 743      |



### Technical data:

|                 |                                       |
|-----------------|---------------------------------------|
| sensor          | Ni 1000 element, 1 k $\Omega$ at 0 °C |
| 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        | ±0.4 °C (at 0 °C)                     |
| time constant   | ca 2.5 s                              |
| pressure rating | PN16                                  |
| materials       | acid proof steel                      |

### Ordering guide:

| Model       | Product number | Description                                |
|-------------|----------------|--------------------------------------------|
| TEV NI 1000 | 117C020        | frost guard sensor<br>1 k $\Omega$ at 0 °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).