

AVERAGE TEMPERATURE SENSOR TEKA NTC 10-C

TEKA NTC 10-C sensor is designed for detecting average temperatures in a large air duct.

Temperature is detected by four NTC 10-C sensor elements with a nominal resistance of 10 k Ω at 25 °C. Thanks to the special mechanical construction, the sensor is able to detect temperature throughout its entire length.

Housing is made of heat-resistant plastic. The cover and the terminal blocks are tilted 45° to provide easy installation.

Sensor is mounted to the duct by using an adjustable flange and springs.

Sensor resistance at different temperatures:

| °C | Ω | °C | Ω |
|-----|----------|-----|----------|
| 120 | 597 | 25 | 10 000 |
| 100 | 973 | 20 | 12 090 |
| 90 | 1266 | 15 | 14 690 |
| 80 | 1668 | 10 | 17 960 |
| 75 | 1924 | 5 | 22 050 |
| 70 | 2228 | 0 | 27 280 |
| 65 | 2588 | -5 | 33 900 |
| 60 | 3020 | -10 | 42 470 |
| 55 | 3536 | -15 | 53 410 |
| 50 | 4160 | -20 | 67 770 |
| 45 | 4911 | -25 | 86 430 |
| 40 | 5827 | -30 | 111 300 |
| 35 | 6940 | -40 | - |
| 30 | 8313 | -50 | - |



Technical data:

| | |
|------------------------|--|
| sensors | 4 x NTC 10-C, 10 k Ω at 25 °C |
| mounting | \varnothing 10 mm hole and flange, 3 springs |
| housing | plastic (< 120 °C) |
| protection class | IP54, cable entry down |
| cable entry | M16 |
| range | -50...+70 °C |
| accuracy | \pm 0.25 °C (25 °C) |
| meas. element | 3 m |
| accessories (included) | 3 pcs mounting springs |
| materials | PBT, PC, PA, stainless steel |

Ordering guide:

| Model | Product number | Description |
|---------------|----------------|--|
| TEKA NTC 10-C | 117M130 | average temperature sensor, 3 m 10 k Ω 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).