

INDUSTRIAL TEMPERATURE SENSOR TES NTC 10-C

TES NTC 10-C temperature sensor is designed for automatic HVAC systems, especially for demanding conditions such as saunas, cold-rooms, freezers and stores.

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

Housing is made of weather-proof aluminium, IP 67 also ensuring a good mechanical protection for the sensor.

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:

| | |
|-------------|----------------------------------------|
| sensor | NTC 10-C, 10 k Ω at 25 °C |
| prot. class | IP67 |
| housing | silium cast |
| cable entry | PG11 |
| range | -50...+120 °C |
| accuracy | $\pm 0.25^{\circ}\text{C}$ (25 °C:ssa) |
| dimensions | 100 x 65 x35 mm |

Ordering guide:

| Model | Product number | Description |
|--------------|----------------|-----------------------------------------------------|
| TES NTC 10-C | 117M100 | industrial temperature sensor 10 k Ω / 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).