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DATA SHEET

# TES

Produal

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# INDUSTRIAL TEMPERATURE SENSOR TES KP 10

TES KP 10 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 KP element with a nominal voltage of 2.73 V at 0 °C.

Housing is made of weather-proof aluminium, IP67 also ensuring a good mechanical protection for the sensor.

**Sensor voltage at different temperatures:**

| °C | V | °C | V |
|---|---|---|---|
| 120 | **3.93** | 25 | **2.98** |
| 100 | **3.73** | 20 | **2.93** |
| 90 | **3.63** | 15 | **2.88** |
| 80 | **3.53** | 10 | **2.83** |
| 75 | **3.48** | 5 | **2.78** |
| 70 | **3.43** | 0 | **2.73** |
| 65 | **3.38** | -5 | **2.68** |
| 60 | **3.33** | -10 | **2.63** |
| 55 | **3.28** | -15 | **2.58** |
| 50 | **3.23** | -20 | **2.53** |
| 45 | **3.18** | -25 | **2.48** |
| 40 | **3.13** | -30 | **2.43** |
| 35 | **3.08** | -40 | **2.33** |
| 30 | **3.03** | -50 | **2.23** |




**Technical data:**

| | |
|---|---|
| sensor | LM335Z, 2.73 V at 0 °C / 10 mV/K |
| protection class | IP67 |
| housing | silium cast |
| cable entry | PG 11 |
| range | -50…120 °C |
| accuracy | ±0.5 °C (at 0 °C) |
| dimensions | 100 x 65 x35 mm |

**Ordering guide:**

| Model | Product number | Description |
|---|---|---|
| TES KP 10 | 117J100 | industrial temperature sensor 2.73 V 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).

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