

## DUCT TEMPERATURE SENSOR TEK KP 10

TEK KP 10 temperature sensor is designed for automatic ventilating systems to detect duct temperatures.

Temperature is detected by a KP sensor element with a nominal voltage of 2.73 V at 0 °C.

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 duct connection flange.

Installation depth can be adjusted approximately from 100 to 200 mm.

### Sensor voltages 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 |
| stem             | Ø 8 mm x 220 mm                  |
| duct connection  | flange                           |
| housing          | plastic (< 120 °C)               |
| protection class | IP54, cable entry or stem down   |
| cable entry      | M16                              |
| range            | -50...+70 °C                     |
| accuracy         | ±0.5 °C (at 25 °C)               |

### Ordering guide:

| Model     | Product number | Description                         |
|-----------|----------------|-------------------------------------|
| TEK KP 10 | 117J040        | temperature sensor<br>2.73 V / 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).