# TEK LU TEMPERATURE TRANSMITTER / CONTROLLER

TEK LU temperature transmitter is designed for automatic ventilating systems to measure duct temperatures. Transmitter information can be used to control other device in the HVAC system.

Temperature is measured by a Pt1000 sensor element. The sensor element resistance information is converted into a 0…10 V signal. The temperature range can be chosen at the commissioning.

TEK LU settings can be changed by using the ML-SER tool. One point field calibration of the transmitter can be executed and the temperature output can be changed to the controller function.

TEK LU transmitter can be equipped with a 3.5-digit liquid crystal display option TE-N V2. The display resolution is 0.1 °C.

Housing is made of heat resistant plastics. The bayonet cover and the terminal blocks tilted to 45° make an easy installation. Transmitter is mounted to the duct by means of an adjustable duct connection flange for the optimal temperature measurement. Installation depth can be adjusted between ca 100…220 mm.

## Range selection

| 0…+50 °C | *0…+100 °C | -50…+50 °C | -50…+150 °C |
|---|---|---|---|
| S1 S2 | S1 S2 | S1 S2 | S1 S2 |

* = factory setting

## Output signal

| 0…+50 | 0…+100 | -50…+50 | -50…+150 | Signal |
|---|---|---|---|---|
| 0 °C | 0 °C | -50 °C | -50 °C | 0 V |
| 25 °C | 50 °C | 0 °C | 50 °C | 5 V |
| 50 °C | 100 °C | 50 °C | 150 °C | 10 V |

**Technical data:**

| | |
|---|---|
| supply voltage | 24 Vac/dc < 1 VA (22…30Vac/dc) |
| sensor | Pt1000 EN 60751/B |
| output | 0…10 Vdc < 2 mA (temperature / controller) |
| temperature range | selectable |
| duct mounting | flange |
| stem | Ø 8 mm x 200 mm, material AISI316 |
| housing | plastics (< 120 °C) |
| protection class | IP54, cable entry or stem down |
| cable entry | M16 |
| accuracy | ± 0.5 °C (at 50 °C) |
| ambient temperature | 0…+60 °C |

**Wiring:**

| | |
|---|---|
| 1 | supply 24 Vac/dc |
| 2 | 0 V |
| 3 | output 0…10 Vdc (temperature / controller) |

**Ordering guide:**

| Model | Product number | Description |
|---|---|---|
| TEK LU | 1179040 | duct temperature transmitter |
| TE-N V2 | 1170250 | display module (cover) |
| ML-SER | 1139010 | transmitter commissioning tool |

Products fulfill 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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