

## WATER CIRCUIT TEMPERATURE TRANSMITTER TEV LU

TEV LU temperature transmitter is designed for air-handling unit radiator monitoring. The transmitter is suitable also for domestic water applications due the short time constant.

The temperature is detected by a Pt1000 sensor element. The sensor element resistance information is converted to a 0...10 V signal. The temperature range can be chosen at the commissioning.

The transmitter settings can be changed by using the ML-SER commissioning tool. The tool can be used to make one point field calibration and to change the temperature output to controller output.

The transmitter can be equipped with a display that has resolution of 0.1 °C.

### Selecting the measuring range

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

### Wiring



### Technical data

Supply	24 Vac/dc (22...30 V) < 1 VA
Sensor element	Pt1000 EN 60751/B
Ranges	0...50 °C      0...100 °C -50...50 °C      -50...150 °C
Accuracy	±0.5 °C (at 0 °C)
Time constant	2.5 s
Output	0...10 Vdc, < 2 mA
Measuring probe	
dimensions	∅ 4 mm x 200 mm
material	stainless steel
mounting	R1/4"
pressure class	PN 16
cable	2 m, LIYY 2 x 0.14
Housing	
protection class	IP54 (cable gland downwards)
cable gland	M16
Ambient temperature	-30...60 °C

### Ordering guide:

Model	Product number	Description
TEV LU	1179020	3-wire, 0...10 V temperature transmitter
TEU-N V2	1170270	display cover for LL and LU transmitters
ML-SER	1139010	transmitter commissioning tool

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).