HK INSTRUMENTS
USER-FRIENDLY MEASURING DEVICES

STRAP-ON TEMPERATURE TRANSMITTER TEPK LL

TEPK LL temperature transmitter is designed for measuring heating and cooling water temperatures in HVAC automation systems. The sensor is mounted on the pipe by using the heat resistance cable tie.

The temperature is detected by a Pt1000 sensor element. The sensor element resistance information is converted to 4…20 mA 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	4 mA
25 °C	50 °C	0 °C	50 °C	12 mA
50 °C	100 °C	50 °C	150 °C	20 mA

Wiring

4...20 mA, temperature/control output	1	+(-)	TEPK LL
4...20 mA, temperature/control output	2	-(+)	

Technical data

Supply	15...35 Vdc
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	approx. 5 s
Output	4...20 mA
Measuring probe	
dimensions (w x h x d)	41 x 15 x 7 mm
material	zinc cast
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
TEPK LL	1177240	2-wire, 4...20 mA temperature transmitter
TEU-N V2	1170270	display cover for LL and LU transmitters
ML-SER	1139010	transmitter commissioning tool