

TEHR LU-PU temperature transmitter is designed for automatic HVAC systems to measure room temperatures.

The temperature is measured by a Pt1000 element. The sensor element resistance information is converted to a 0...10 V signal. The transmitter has two separate outputs. Output 1 can be used as a temperature output or a control function. Output 2 is used for active potentiometer output. The transmitter temperature range can be changed during the commissioning.

TEHR LU-PU-N transmitter is equipped with a 3.5-digit liquid crystal display. The display resolution is 0.1 °C. The transmitter 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.

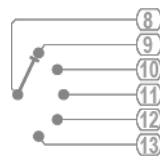
There are available 5-state switch options, K5 and K5R. The K5 is a static 5-stage switch for a fan control. The K5R is a 5-stage switch with resistance output. The resistance output signal can be easily read by NTC10k input in automatic HVAC system. See more information about the options from TEHR order form.

### Wiring:

- 1 supply, 24 Vac/dc
- 2 0 V
- 3 temperature signal 0...10 Vdc or controller
- 4 active potentiometer

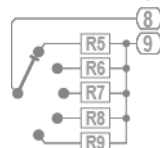
TEHR-K5, 5-state switch (30 V / 0.1 A)

- 8 selector switch
- 9 switch position A
- 10 switch position 0
- 11 switch position 1
- 12 switch position 2
- 13 switch position 3



TEHR-K5R, 5-state switch with resistance output

- 8 selector switch
- 9 K5R output



### Technical data:

sensor	Pt1000 EN 60751/B
measuring range	selectable
supply	24 Vac/dc (22...26 V)
output 1	0...10 V (temperature / controller)
output 2	active potentiometer
accuracy	±0.5 °C at 25 °C
ambient temperature	0...+50 °C
housing	ABS plastic, IP20
dimensions (w x h x d)	86 x 85 x 32 mm
mounting	on the wall or on the standard flush mounting box (60 mm hole distance)

### Range selection:

* 0...+50 °C	0...+100 °C	-50...+50 °C	-50...+150 °C
S1 S2	S1 S2	S1 S2	S1 S2
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

\* = 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

### Ordering guide:

Model	Product number	Description
TEHR LU-PU	1179350	room temperature transmitter, 2 x 0...10 V
TEHR LU-PU-N	1179351	room temperature transmitter with display
TEHR-K5	1170240	option, 5-state switch
TEHR-K5R	1170241	option, 5-state switch with resistance output
TEHR-N V2	1170260	option, display module+ cover
ML-SER	1139010	transmitter commissioning tool

All specifications are subject to change without notice



# TECHMARK

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