

TEP LU temperature transmitter is designed for pipe strap-on installations, for heating and cooling applications. 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.

TEP 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.

TEP 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 on the pipe by means of an adjustable tie.

#### 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) selectable
temperature range	selectable
pipe	Ø 32...90 mm
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
time constant	5 s

#### Wiring:

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

#### Ordering guide:

Model	Product number	Description
TEP LU	1179080	strap-on temperature transmitter
TE-N V2	1170250	display module (cover)
ML-SER	1139010	transmitter commissioning tool

All specifications are subject to change without notice



# TECHMARK

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TEP LL 2-wire temperature transmitter is designed for pipe strap-on installations, for heating and cooling applications. 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 4...20 mA signal. The temperature range can be chosen at the commissioning.

TEP LL 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.

TEP LL 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 on the pipe by means of an adjustable tie.

#### 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	4 mA
25 °C	50 °C	0 °C	50 °C	12 mA
50 °C	100 °C	50 °C	150 °C	20 mA



#### Technical data:

supply voltage	15...35 Vdc
sensor	Pt1000 EN 60751/B
output	4...20 mA (temperature / controller)
temperature range	selectable
pipe	Ø 32...90 mm
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
transmitter type	2-wire
time constant	5 s

#### Wiring:

- 1 +(-) temperature signal or controller 4...20 mA
- 2 - (+) temperature signal or controller 4...20 mA

NOTE: The electrical wiring is polarity free.

#### Ordering guide:

Model	Product number	Description
TEP LL	1177080	strap-on temperature transmitter
TE-N V2	1170250	display module (cover)
ML-SER	1139010	transmitter commissioning tool

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