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DATA SHEET

TEP LL

Produal

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TEP LL TEMPERATURE TRANSMITTER / CONTROLLER

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

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).

Information is subject to change without prior notice.