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DATA SHEET

TEPK LU

Produal

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TEPK LU - Strap-on temperature transmitter



TEPK LU temperature transmitters are designed for pipe strap-on installations. Transmitters can be used for measuring and controlling temperature. 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 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.

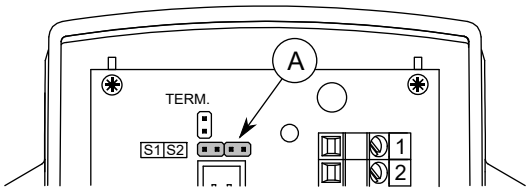
Technical specifications

Property	Value
Supply	24 Vac/dc, < 1 VA
Temperature measurement	
Sensor	Pt1000 EN 60751B
Range	0...50 °C / *0...100 °C / -50...50 °C / -50...150 °C
Accuracy (25 °C)	±0.5 °C
Time constant	Approx. 5 seconds
Output	0...10 Vdc, 2 mA (temperature or controller)
Probe	
Cable	Ø3.2 mm x 2 m, LIYY 2 x 0.14
Material	Zinc cast
Mounting	with a plastic band on the pipe (Ø10...100 mm)
Dimensions (w x h x d)	41 x 15 x 6 mm
Housing	
Protection class	IP54, cable entry downwards
Material	PC plastic
Cable gland	M16
Mounting	With screws, external lugs
Dimensions (w x h x d)	105 x 102 x 46 mm

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Property	Value
Operating conditions	
Temperature	-30...60 °C
Humidity	0...90 %rH (non-condensing)
	* factory default

Temperature measurement range selection



A. Measurement range selection jumpers

	0...50 °C	*0...100 °C	-50...50 °C	-50...150 °C
S1	■	■	• •	• •
S2	• •	■	■	• •

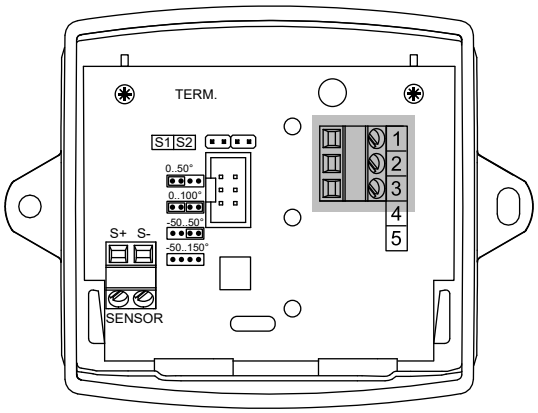
* factory default

Wiring

WARNING: Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.

WARNING: This product is appliance class III product according to IEC 60664-1. The product may only be connected to SELV (safety extra low voltage) electricity network.

CAUTION: The product may only be connected to overvoltage category I, II or III electricity network according to IEC 60664-1.



1	Supply, 24 Vac/dc, < 1 VA
2	0 V
3	Voltage output (temperature or controller), 0...10 / 2...10 / 0...5 Vdc, < 2 mA

The nominal wire terminal screw tightening torque is 0.6 Nm.

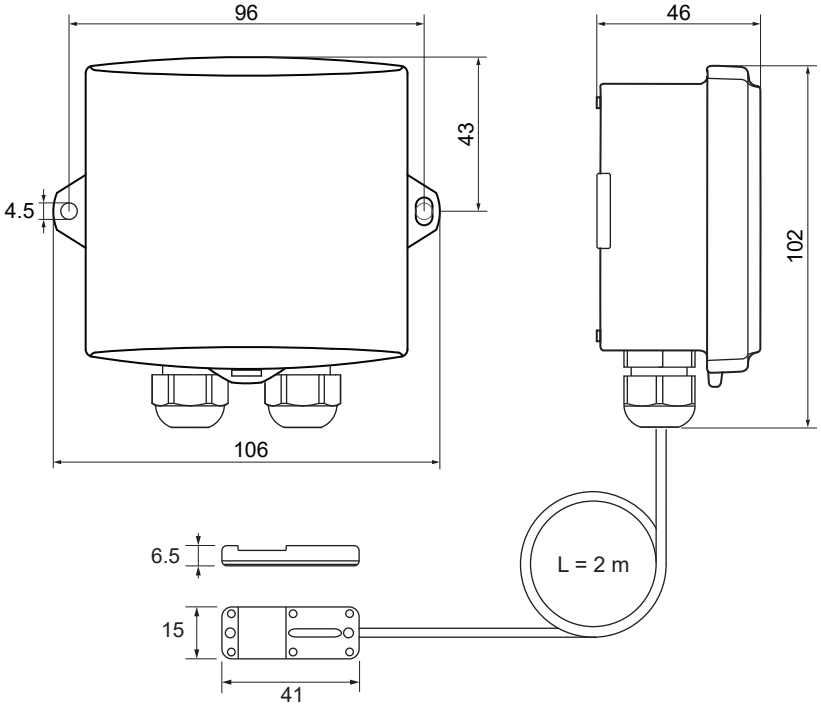
Important: Don't use excessive force when tightening the wiring terminal screws.

⚠ **CAUTION:** Ensure that all covers are closed before connecting supply voltage to the product. Don't remove the covers when the supply voltage is connected.

Ordering information

	Model	Product number	Description
	TEPK LU	1179240	Strap-on temperature transmitter, 0...10 V
	TEPK LU-N	1179240N00	Strap-on temperature transmitter, display, 0...10 V
	ML-SER	1139010	Transmitter commissioning tool

Dimensions



Supported standards, directives and regulations

Standard	Description
2014/30/EU	Electromagnetic Compatibility (EMC).
2011/65/EU	Restriction of Hazardous Substances (RoHS2) Directive.
(EU) 2015/863	Commission Delegated Directive, amending Annex II to Directive 2011/65/EU.
S.I. 2016 No. 1091	Electromagnetic compatibility regulations
S.I. 2012 No. 3032	The restriction of the use of certain hazardous substances in electrical and electronic equipment regulations
EN 61000-6-3:2007/ A1:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments.
EN 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments.

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