

LLK/LUK Temperature Transmitters

LLK is a 2-wire temperature transmitter made for automatic HVAC systems to detect outdoor temperature.

LUK is a 3-wire temperature transmitter made for automatic HVAC systems to detect outdoor temperature.

Temperature is detected by a Pt 100 sensor (required separately) with a nominal resistance of 100 Ohm/ 0°C. The signal of the Pt100 element is converted into a 4...20mA signal (LLK) or into a 0..10Vdc signal (LUK).

The range of the transmitter (factory setting: -50...+50°C = 4...20mA/0..10Vdc) can be changed at commissioning.

Housing is made of weather-proof uv-protected PC plastics (IP54).

Terminal blocks tilted 45° and sufficient space in the housing make an easy installation.

Lxx-N models have built-in display that shows the current temperature reading.



Model Type	Model	Description
	LLK	Temperature Transmitter Pt100/4..20mA (no sensor)
	LLK-N	Temperature Transmitter Pt100/4..20mA with Display (no sensor)
	LUK	Temperature Transmitter Pt100/0..10Vdc (no sensor)
	LUK-N	Temperature Transmitter Pt100/0..10Vdc with Display (no sensor)
Technical Data	LLK	Transmitter: 2-wire Supply: Loop Powered 15..35Vdc Output: 4..20mA
	LUK	Transmitter: 3-wire Supply: 24Vac/dc <1VA (22..30Vac/dc) Output: 0..10Vdc < 2mA
	Range	Selectable; 0..50°, 0..100°C, -50..+50°C, -50..+150°C
	Accuracy	+/-0.5°C (at 0°C)
	Sensor	Pt100 EN60751 (supplied separately)
	Housing	PC Plastics, uv-protected
	Operating Temp	-50..+60°C
	Cable Gland	M16
	Protection Class	IP54. Cable Gland Downwards
	Dimensions	W115 x H115 x D45mm
Wiring (LLU)	1	24Vac/dc Power Supply
	2	0V
	3	Output 0..10Vdc <2mA

Temperature/Output

0/50°C0	0/100°	-50/50°C	-50/150°C	mA (LL)	V (LU)
0	0	-50	-50	4	0
25	50	0	50	12	5
50	100	50	150	20	10
on	on*	off	off	Switch S1	
off	on*	on	off	Switch S2	

* 0/100°C = factory setting

Accessories

Model	Description
TEAT-PT100	Immersion Pt100 Temperature Sensor
TEP-PT100	Strap-On Pt100 Temperature Sensor
TEK-PT100	Duct Pt100 Temperature Sensor
TEKY-PT100	Flying Lead Pt100 Temperature Sensor