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DATA SHEET

TEKV LU

Produal

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TEKV LU FROST GUARD TRANSMITTER / CONTROLLER

TEKV LU temperature transmitter is designed for automatic HVAC system to monitoring the air heater radiators against frost. 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.

TEKV 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.

TEKV 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. The material of the stem is stainless steel for prolonged life. Installation to the radiator is made by means of an R1/4" joint. Mounting depth is adjustable to max. 210 mm. Time constant of the sensor is ca 2.5 seconds.

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)
temperature range	selectable
connection	R ¼"
stem	Ø 4 mm x 234 mm, material AISI316
housing	plastics (< 120 °C)
protection class	IP54, cable entry or stem down
cable entry	M16
pressure rating	PN16
accuracy	± 0.5 °C (at 50 °C)
ambient temperature	0…+60 °C
time constant	ca 2.5 s

Wiring:

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

Ordering guide:

Model	Product number	Description
TEKV LU	1179120	frost guard 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.