HK INSTRUMENTS

USER-FRIENDLY MEASURING DEVICES

TEK LL TEMPERATURE TRANSMITTER / CONTROLLER

TEK LL 2-wire temperature transmitter is designed for automatic ventilating systems to measure duct temperatures. 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.

TEK 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.

TEK 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 to the duct by means of an adjustable duct connection flange for the optimal temperature measurement. Installation depth can be adjusted between ca 100...220 mm.

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
duct mounting	flange
stem	Ø 8 mm x 200 mm, material AISI316
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

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
TEK LL	1177040	duct temperature transmitter
TE-N V2	1170250	display module (cover)
ML-SER	1139010	transmitter commissioning tool