

TEK LL - Duct temperature transmitter



TEK LL 2-wire temperature transmitters measure duct temperatures in automated ventilation systems. They can transmit temperature measurement data to the building management system or operate as controllers. In the controller mode, the transmitter can control a thermal actuator or other device based on the measurement data.

The transmitter measures the temperature with a Pt 1000 sensor element. The transmitter converts the resistance data from the sensor element into a 4...20 mA signal. You can select the temperature measurement range during commissioning.

The transmitter is mounted to the ventilation duct with an adjustable duct flange that allows easy installation and accurate depth adjustment for both round and rectangular ducts. The advanced design of the duct flange minimises air leaks in the duct.

You can commission the transmitter with the ML-SER commissioning tool. With the commissioning tool, you can do the following:

- Convert the temperature output into a control output and configure the controller settings.
- Tune temperature measurement on the field using the one-point tuning method.
- Change other transmitter settings.

Technical specifications

Vdc
O EN 60751B
°C / *0100 °C / -5050 °C / -50150 °C
С
mA (temperature or controller)
ER .



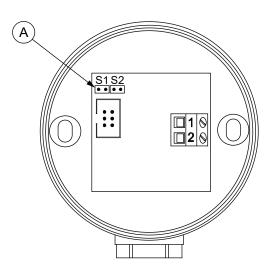
Property	Value		
Operating conditions			
Temperature	060 °C		
Humidity	090 %rH (non-condensing)		
Wiring terminals			
Туре	tilted screw terminals		
Recommended wire	0.21.5 mm² (2416 AWG), stripping length 5 mm		
Tightening torque	0.6 Nm		
Probe			
Material	stainless steel (AISI 316)		
Dimensions	Ø 8 mm x 200 mm		
Housing			
Protection class	IP54, cable gland or probe downwards		
Materials	PC and PBT plastic		
Cable gland	M16		
Duct flange			
Materials	LLPDP		
Mounting	with the duct flange, probe immersion length adjustable:		
	100180 mm (probe length 200 mm)		
Dimensions (w x h x d)	70 x 95 x 291 mm (probe length 200 mm)		
CE CK	Refer to the EU Declaration of Conformity or the UK Declaration of Conformity for compliance information. You can find the declarations on this product's page at www.produal.com.		
	* factory setting		

Temperature measurement range selection



CAUTION: Make sure that the device is de-energised before changing the jumper settings. Do not remove the cover when the supply voltage is connected.





A. Measurement range selection jumpers

	050 °C	*0100 °C	-5050 °C	-50150 °C
S1			• •	• •
S2	• •			• •

^{*} factory default

Wiring



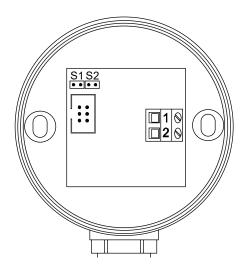
WARNING: Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.



WARNING: This product is appliance class III product according to IEC 60664-1. The product may only be connected to SELV (separated 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.





The nominal tightening torque for wire terminal screws is 0.6 Nm.



Important: Do not use excessive force when you tighten the wiring terminal screws.





CAUTION: Ensure that all covers are closed before you connect the supply voltage to the product. Do not remove the covers when the supply voltage is connected.

Ordering information

	Model	Product number	Description
100 mg	TEK LL	1177040	Duct temperature transmitter, 420 mA
OB .	TEK LL-N	1177040N00	Duct temperature transmitter, display, 420 mA
3 °° °°	ML-SER	1139010	Transmitter commissioning tool

Dimensions

All dimensions are in millimeters (mm).

