

# KLK 100 - DUCT HUMIDITY AND TEMPERATURE TRANSMITTER

KLK 100 humidity and temperature transmitters are designed to detect duct air humidity and temperature.

The M models have RS-485 connection for Modbus RTU communication. ML-SER tool is needed at commissioning for making the Modbus settings.

The output signals can be selected at the commissioning to be either 0...10 V or 4...20 mA signals. More output signal possibilities are available by using the ML-SER tool.

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 OUT1 or OUT2 output to a controller output. Accordingly, the controller settings can be changed by using the ML-SER tool.

The control output can be controlled either according to a one measurement value or according to the maximum selection of all values.

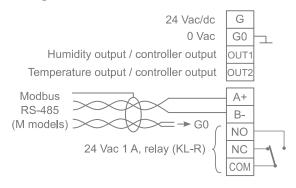
The N models have a backlit display. The measurement values are shown on the N model display simultaneously. One measurement value view can be selected also.

The transmitter can be equipped with a relay option (24 Vac, 1 A) that switches according to the one measurement value or according to the all values. The relay switching point can be adjusted by using ML-SER tool.

## Selecting the output format

	Vdc	mA
OUT1	•	•
OUT2	•	•

### Wiring





#### Technical data:

	Supply	24 Vac/dc	(*2128 V	), 2 VA
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Humidity measurement Range

0...100 % rH

Accuracy (at 25 °C) typ. ±2 % rH (20...80 % rH)

max. ±3 %rH

±0.5 % rH / 24 months Long term stability

Temperature measurement

-50...+50 °C Range ±0.5 °C Accuracy (at 25 °C)

0...10/2...10/0...5 Vdc, < 2 mA Outputs

4...20 mA, < 500 Ω backlit dot matrix display

Communication (M models) Modbus RTU

Protection class

Display (N models)

Transmitter IP54 (probe or cable gland

downwards) Sensor IP20

Operating conditions

Temperature -30...+50 °C

Humidity 0...90 % rH (non cond.)

Mounting with a flange, adjustable probe

depth

Dimensions (w x h x d) 70 x 98 x 220 mm

Materials PBT, PC, PA and stainless steel

## Ordering guide:

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Model	Product number	Description
KLK 100	1132240	duct humidity transmitter
KLK 100-N	1132241	duct humidity transmitter with display
KLK-M	1132610	duct humidity transmitter, Modbus
KLK-M-N	1132611	duct humidity transmitter with display, Modbus
KL-R	1132001	option, relay 24 Vac 1 A
ML-SER	1139010	transmitter commissioning tool

Products fulfil the requirements of directive 2014/30/EU and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

<sup>\* =</sup> Relay output requires 24 Vac/dc supply voltage.