

Combined Duct Humidity and Temperature Sensors

Combined humidity & temperature sensors KLK 100 and KLK 100-N detect duct air humidity by a capacitive element and temperature by a thermistor. The linear output signals (humidity and temperature) can be coded either to 0...10V or 4...20mA signal at the commissioning. High quality elements guarantee long stability and wide operating ranges for both humidity (0...90%rh) and temperature (-50°C...+50°C) detection.

Installation in the duct is by the adjustable flange.

KLK 100-N has the same functionality as the KLK 100 but with a display. Display alternates the temperature and the humidity readings. It is possible to configure the display to show permanently either temperature or humidity.



Model Types	Model	Description
	KLK 100 KLK 100-N	Combined Duct Humidity and Temperature Sensor Combined Duct Humidity and Temperature Sensor with Display
Technical Data	Power supply	24Vac/dc (15..28Vac.dc), < 1VA
	Outputs	0...10Vdc, < 2mA 4...20mA, < 600Ω
	Outputs with 15..18V Supply	4..20mA <375..525 Ohm* *(+Vdc-7.5V)/20mA
	Range	
	- humidity	0...100%rh
	- temperature	-50°C...+50°C
	Accuracy	
	- humidity	±2%, (0...90%rh)
	- temperature	±0.5°C/25°C
	Sensor elements	
	- humidity	capacitive
	- temperature	thermistor
Wiring Terminals	Long term stability	±5%, 24 months
	Protection class	
	- transmitter	IP 54
	- sensor elements	IP 20
	1	24Vac/dc power supply
	2	0Vac
	3	%rh output, 0...10Vdc/4...20mA (selection via jumper)
	4	°C output, 0...10Vdc/4...20mA (selection via jumper)

Humidity/Output Value

Humidity / V,mA

Humidity %rh	V	mA
0	0	4
50	5	12
100	10	20

Temperature / V,mA

Temperature °C	V	mA
-50	0	4
0	5	12
50	10	20

Dimensions

