

ROOM HUMIDITY TRANSMITTER KLH 100

KLH 100 is a combined relative humidity and temperature transmitter, which is made for indoor measurements.

Linear 0...10Vdc-signals are sent to the incorporated control devices.

Mounting can be made on a wall surface or on a standard conduit box.

Available also with a %rH and/or °C display; type KLH 100-N. As a factory setting the display keeps changing in 3s cycles between temperature and humidity. By opening the link S1 during the desired display this variable stays fixed.



Technical data:

Supply	24V ac/dc, <1VA
Outputs	0-10Vdc, < 2mA
Range	0...100 % rH
continuous use	5...95 % rH
Temperature range	0...+50 °C
Accuracy	
humidity	+/- 2% rH, (25 °C)
temperature	+/- 0,5°C, (25 °C)
Long term stability	+/- 5 % rH, 24 months
Ambient humidity (non condensing)	0...100 % rH
Housing, protection class	ABS plastics, IP20

Connection:

1	supply 24V ac/dc
2	0V
3	% rH-output 0...10Vdc (0...100% rH)
4	°C-output 0...10Vdc (0...50 °C)

Ordering guide:

Model	Product number	Description
KLH 100	1132210	room transmitter
KLH 100-N	1132211	room transmitter with display (humidity and temperature display)

ROOM HUMIDITY TRANSMITTER KLH 420

KLH 420 is a two-wire, relative humidity (%rH) transmitter, made for indoor measuring.

Mounting can be made on a wall surface or on a standard flush mounting box.

Available is also a model KLH 420-N with a display.



Technical data:

Operating voltage	12...35V dc
Output	4...20mA < 500 ohm (24Vdc)
Power consumption	< 20mA, 24Vdc
Range	0...100 % rH
for continuous use	5...95 % rH
Accuracy	+/- 3% rH, (25 °C)
Long term stability	+/- 5 % rH, 24 months
Ambient humidity (non condensing)	0...100 % rH
Housing, protection class	ABS plastics, IP20

Wiring:

1	+, 4...20mA
2	-, 4...20mA

Ordering guide:

Model	Product number	Description
KLH 420	1132280	room humidity transmitter
KLH 420-N	1132281	room humidity transmitter with display

KLH-M ROOM HUMIDITY TRANSMITTER WITH MODBUS

KLH-M is a combined relative humidity and temperature transmitter made for indoor measuring.

Measurements are available via Modbus but also as linear 0...10Vdc signals.

AO3 output (terminal 5) can also be configured to work as a controller output (= P-controller), and then the transmitter is working also as a humidity or temperature controller. AO3 output can also be controlled directly via Modbus.

Mounting can be made on a wall surface or on a standard conduit box.

Available is also a model with a %rH and/or °C display; type KLH-M-N. As a factory setting, the display is changing in cycles of 3 s between temperature and humidity. By pushing S1 during the desired display this variable stays fixed.

For commissioning the HDH-C tool is needed for making the Modbus and possible controller settings. After completed commissioning the tool can be removed.

Wiring:

1	24 V ac/dc
2	0 V
3	
4	0-10V = 0...+50°C
5	0-100%RH = 0-10V
S+	
6	ModBus
7	S- S2
8	0 V =Terminate
S1 = Display mode Push mom. > Select scanning or current unit	



Technical data:

Supply		24V ac/dc, <1VA (15-28Vac/dc)
Outputs		0-10Vdc, < 2mA
Range	humidity	0...100 % rH
	continuous use	5...95 % rH
	temperature	0...50°C
Communication		Modbus RTU
Accuracy at 25°C	humidity	+/- 2% rH, (0...90%RH)
	temperature	+/- 0,5°C
Long term stability		+/- 5 % rH, 24 kk
Ambient	temperature	0...50°C
	humidity	0...100 %rH (non condensing)
Housing		ABS plastics, IP20

Ordering guide:

Model	Product number	Description
KLH-M	1132600	room humidity transmitter with Modbus
KLH-M-N	1132601	room humidity transmitter with Modbus and display
HDH-C	1135042	Modbus commissioning tool