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DATA SHEET

KLH-Passive

Produal

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KLH-Passive humidity transmitter/controller with passive temperature measurement



The KLH-Passive transmitters with passive temperature measurement can measure and control relative humidity and temperature in room spaces. You can use the measurement data for demand-based ventilation control.

The transmitter measures temperature with a passive sensor and an active sensor. It has a resistance output for the passive sensor data and a voltage output for the active sensor data. In addition, the transmitter has one scalable voltage output for humidity measurement data.

The transmitter has one control output. The controller can control the output according to one measurement value or according to the maximum selection of all values. You can change the controller settings with the ML-SER tool.

The transmitters can be equipped with the following options:

- HD-P: Passive potentiometer
- HD-PU: Active 0…10 V potentiometer. You can direct the potentiometer information to an output (Y3 or Y4) or use it to adjust the internal controller setpoint.

Technical specifications

Property	Value
Supply	24 Vac/dc (22…28 V) < 2 VA
Humidity measurement	
Range	0…100 %rH
Accuracy (25 °C)	typ. ±2 %rH (20…80 %rH)
Active temperature measurement	
Range	0…50 °C
Accuracy (25 °C)	±0.5 °C
Control setpoint	18…26 °C
Passive temperature measurement	
Sensor (PT 1000 model)	Pt1000 EN 60751B
Sensor (NTC 10 model)	10 kΩ NTC element

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Property	Value
Sensor (NTC 20 model)	20 kΩ NTC element
Accuracy (18...24 °C)	±0.5 °C **Important:** Because of the self-heating, the passive temperature measurement is corrected with a built-in resistor. The accurate measurement range is 18...24 °C. Temperatures outside the range are not accurate.
Outputs	3 x 0...10 Vdc / 2...10 Vdc, < 2 mA
PT 1000 model	1 x Pt1000
NTC 10 model	1 x NTC 10
NTC 20 model	1 x NTC 20
Appliance class (IEC 60664-1)	III
Commissioning tool	ML-SER
Operating conditions	
Temperature	0...50 °C
Humidity	0...85 %rH (non-condensing)
Protection class	IP20
Wiring terminals	tilted screw terminals
Wire	0.2...1.5 mm^2 (24...16 AWG)
Mounting	On the wall surface or on a flush mounting box (60 mm hole distance)
Materials	ABS plastic (housing)
Dimensions (w x h x d)	87 x 86 x 30 mm
CE UKCA	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.

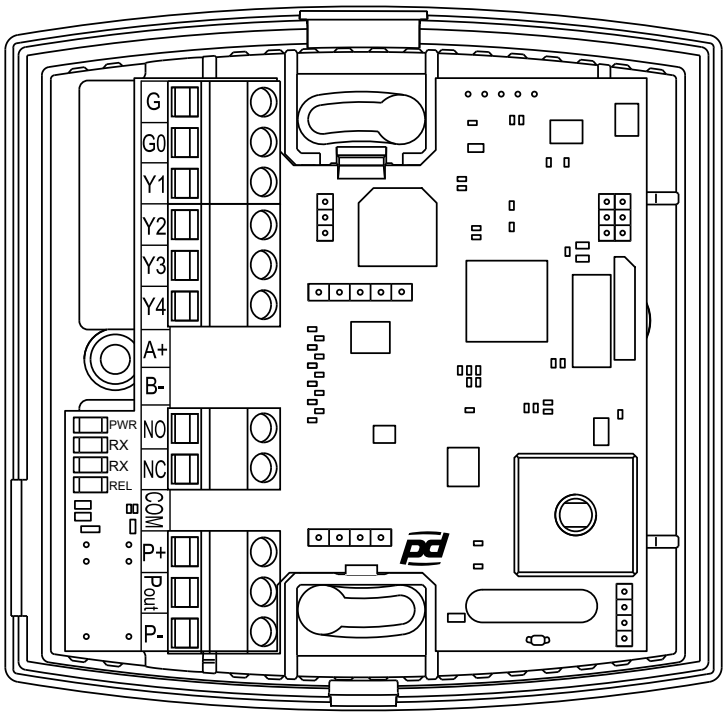
Wiring

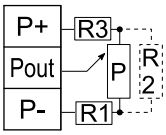
WARNING: Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.

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.

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G	24 Vac/dc, 2 VA supply	
G0	0 V	
Y1	Not in use.	
Y2	Temperature output, 0...10 Vdc / 2...10 Vdc, < 2 mA	
Y3	Humidity output / active potentiometer output, 0...10 Vdc / 2...10 Vdc, < 2 mA	
Y4	Control output / active potentiometer output, 0...10 Vdc / 2...10 Vdc, < 2 mA	
NO *NC*	Passive sensor output.	
P+ *Pout* *P-*		Passive potentiometer output.

Ordering information

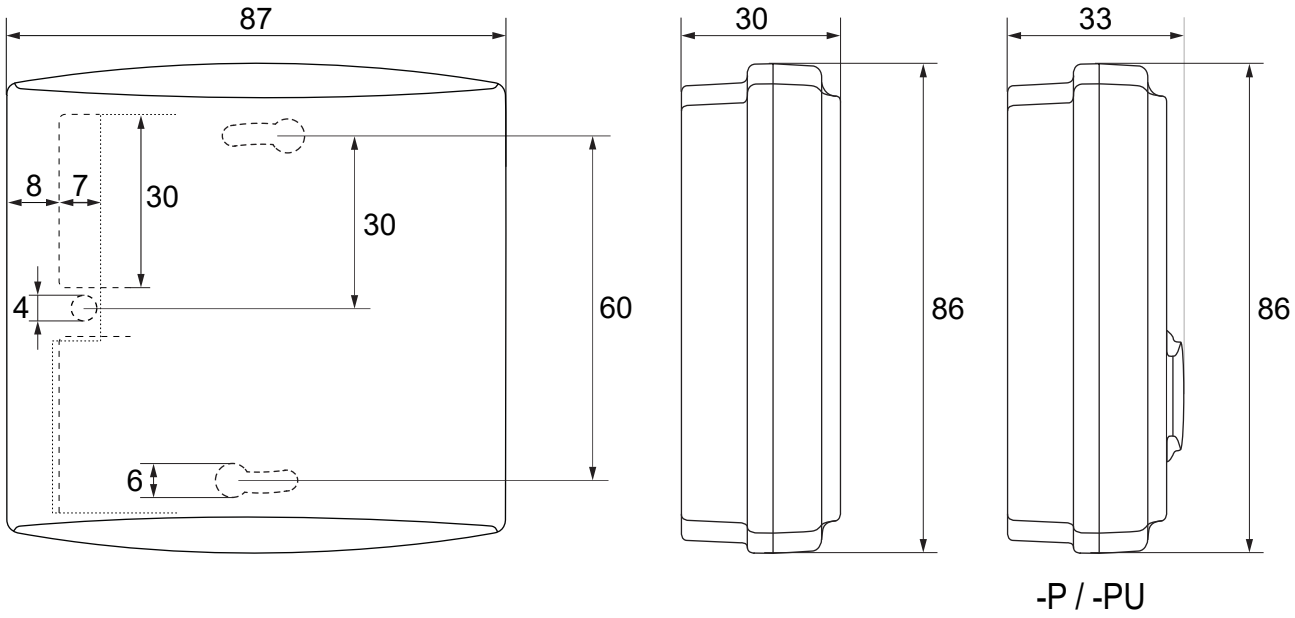
	Type	Product number	Description
	KLH 100-PT 1000	1132320	Room transmitter / controller, humidity and temperature measurement, PT 1000 sensor
	KLH 100-NTC 10	1132230	Room transmitter / controller, humidity and temperature measurement, NTC 10 sensor
	KLH 100-NTC 20	1132310	Room transmitter / controller, humidity and temperature measurement, NTC 20 sensor

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	Type	Product number	Description
	HD-P	1135001	Passive potentiometer option
	HD-PU	1135002	Active potentiometer (0...10 Vdc) option
	ML-SER	1139010	Transmitter commissioning tool

Dimensions

All dimensions are in millimeters (mm).



-P / -PU