DATA SHEET

KLH-5V-Passive

Produal

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KLH 100-5V-PT 1000 - Humidity transmitter/ controller with passive temperature measurement



KLH 100-5V-PT 1000 transmitters with passive temperature measurement are designed for detecting and controlling humidity and temperature in room spaces. The transmitter information can be used for demand based ventilation control, for example. The transmitters are equipped with two temperature measurements, passive (resistance output) and active (voltage output).

The measurement values scroll on the N model display. The wanted value can be locked to view continuously.

The control output can be controlled either according to a one measurement value or according to the maximum selection of all values. The controller settings can be changed by using the ML-SER tool.

The transmitter can be equipped with following options:

- HD-P: Passive potentiometer
- HD-PU: Active 0…10 V potentiometer. The potentiometer information can be directed to output (Y3 or Y4) or used to adjust the internal controller set point.

Technical specifications

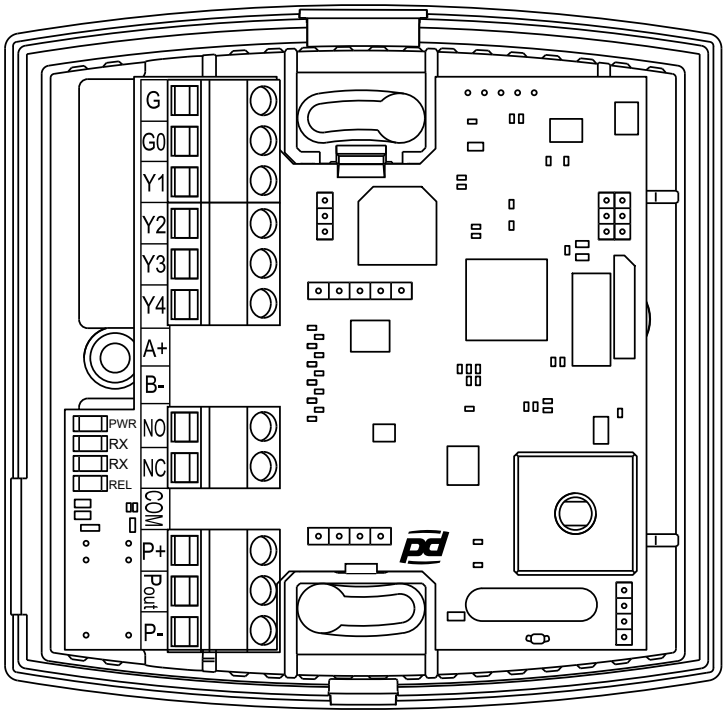
Property	Value
Supply	24 Vac/dc (22…28 V) < 2 VA
Humidity measurement	
Range	0…100 %rH
Accuracy (25 °C)	typ. ±2 %rH (20…80 %rH)
Active temperature measurement	
Range	0...50 °C
Accuracy (25 °C)	±0.5 °C
Passive temperature measurement	
Sensor (PT 1000 model)	Pt1000 EN 60751B
Accuracy (18...24 °C)	±0.5 °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...5 Vdc / 0...10 Vdc, < 2 mA

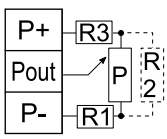
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Property	Value
PT 1000 model	1 x Pt1000
Operating conditions	
Temperature	0...50 °C
Humidity	0...85 %rH (non-condensing)
Storage temperature	-20...70 °C
Wiring terminals	1,5 mm^2, tilted screw terminals
Mounting	On the wall surface or on a flush mounting box (60 mm hole distance)
Housing	IP20
Dimensions (w x h x d)	87 x 86 x 30 mm

Wiring

CAUTION **CAUTION:** Device wiring and commissioning can only be carried out by qualified professionals. Always make the wirings while the power is switched off.

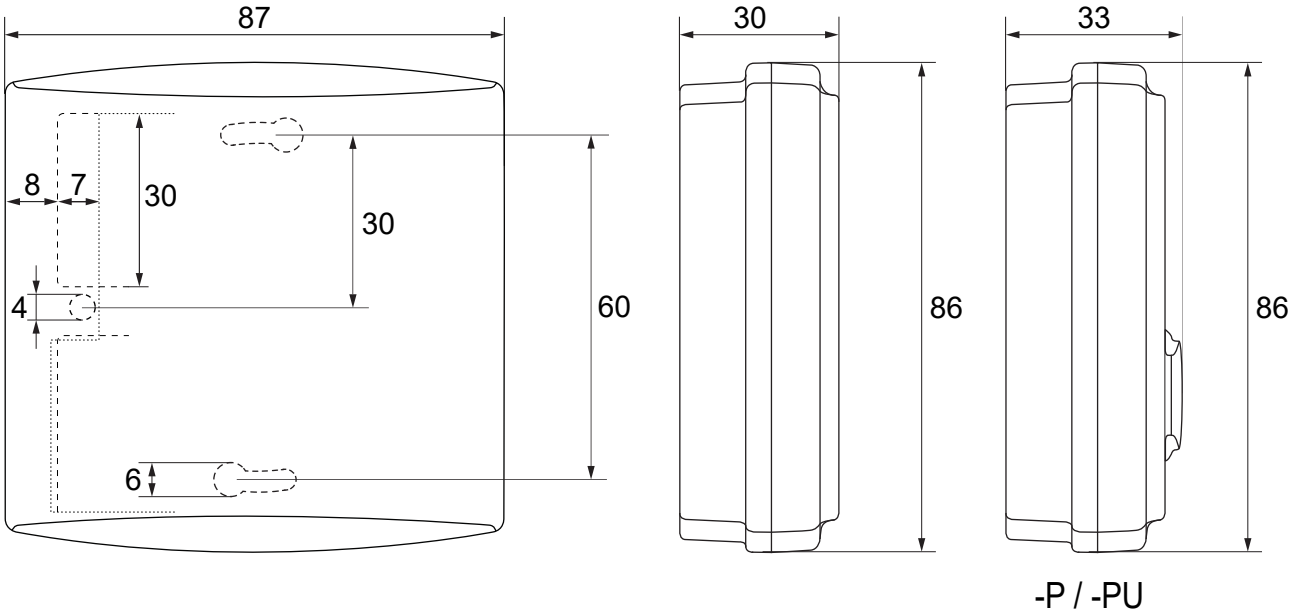


G	24 Vac/dc, 2 VA supply
G0	0 V
Y1	Not in use.
Y2	Temperature output, 0...5 Vdc / 0...10 Vdc, < 2 mA
Y3	Humidity output / active potentiometer output, 0...5 Vdc / 0...10 Vdc, < 2 mA
Y4	Control output / active potentiometer output, 0...5 Vdc / 0...10 Vdc, < 2 mA
NO *NC*	Passive sensor output.
P+ *Pout* *P-*	 Passive potentiometer output.

Ordering information

	Type	Product number	Description
	KLH 100-5V-PT 1000	1132620	Room transmitter / controller, humidity and temperature measurement, Pt1000 sensor
	HD-P	1135001	Passive potentiometer option
	HD-PU	1135002	Active potentiometer (0...10 Vdc) option
	ML-SER	1139010	Transmitter commissioning tool

Dimensions



Supported standards and directives

Standard	Description
2014/30/EU	Electromagnetic Compatibility (EMC).
2011/65/EU	Restriction of Hazardous Substances (RoHS2) Directive.
(EU) 2015/863	Commission Delegated Directive, amending Annex II to Directive 2011/65/EU.
EN 61000-6-3:2007/A1:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments.
EN 61000-6-2:2006	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments.

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