Air Humidity Meter PCE-P18S

Air Humidity Meter in a compact design / Modbus RTU interface /

measures air humidity, temperature / calculates the dew point and absolute humidity

The Air Humidity Meter measures air humidity and air temperature. The Air Humidity Meter calculates the dew point and the absolute humidity from these two values. The measurement data from the Air Humidity Meter are output via the Modbus RTU interface. This makes the Air Humidity Meter suitable for mass applications where the humidity and temperature must be measured quickly and easily.

Due to the compact dimensions, the Air Humidity Meter can be easily installed in control cabinets, on walls or in cavities. Optional filters protect the sensor element from the Air Humidity Meter from external influences such as moisture or dust. A simple cable connection creates the connection between the Air Humidity Meter and a Modbus master. The Air Humidity Meter can be used in conjunction with a Modbus display, a Modbus data logger or a paperless recorder.

- ▶ Measuring range 0 ... 100% RH
- ▶ Temperature measuring range -4 ... 140 ° F, -20 ... 60 ° C
- ▶ Modbus RTU interface
- ▶ Various filters optionally available
- ▶ compact pen sensor
- ▶ Semiconductor sensor element
- ▶ optionally with M8 cable socket
- ▶ 8.2 ft (2.5 m), 16.4 ft (5 m), 32.8 ft (10m) connection cable

Specifications

Measuring range temperature	-4 ... 140 ° F, -20 ... 60 ° C
accuracy	± 1.08 ° F (0.6 ° C) @ 50 ... 104 ° F (10 ... 40 ° C)
	± 1.8 ° F (1 ° C) in the rest of the range
Measuring range humidity	0 ... 100% RH
accuracy	± 3% (10 ... 90% RH)
	± 5% (in the rest of the range)
interface	Modbus RTU
transmission modes	8N1, 8N2, 8E1, 8O1
baud rates	2400, 4800, 9600, 19200, 38400, 57600, 115200 kbit / s
power supply	9 ... 25 V DC
input	<0.5 W
operating position	any if no contact with water
	down when in contact with water
Electromagnetic compatibility	EN 61000-6-2, EN61000-6-4, EN61010-1
pollution degree	2
installation category	III
Overvoltage protection	Max. 50 V DC
operating altitude	Max. 200 m
Operating and storage conditions	-4 ... 140 ° F (-20 ... 60 ° C) / max. 95% RH
degree of protection	IP65 (housing)
Dimensions	3.39 x 0.49 inch (86 x 12.5 mm)
Weight	approx. 0.22 lb (100 g)

More information

More product info

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