HUMIDITY SENSOR PCE-P18 4...20 MA

PCE-P18-1A0E0



- **Humidity and temperature sensors**
- **4 ... 20 mA output**
- **simple wall mounting**
- **RS-485 interface**
- **for permanent monitoring**
- **various filters available**
- **small dimensions**
- **Modbus RTU**

Measures temperature and humidity / output as a 4 ... 20 mA signal / compact

Modbus RTU interface / wall mounting

The humidity sensor is used in HVAC technology to monitor humidity and temperature.The measured values are output by the humidity sensor as a standard signal 4 ... 20 mA.In this compact humidity sensor, air humidity and temperature are precisely determined using a semiconductor component.For commissioning, the humidity sensor is supplied via a DC voltage.The measured variables are output via a two-wire line.All connections are made via screw contacts in the waterproof IP 65 housing.In addition to the output of the measurement signal as a 4 ... 20 mA signal, the measurement values can be output via the RS485 interface.This function is particularly useful if several measuring points are to be linked to one another during your home surveillance.

Specification

Relative humidity	
Measuring range	0 ... 9 %
Accuracy	±3%
Relative humidity	
Measuring range	10 ... 90 %
Accuracy	±2 %
Relative humidity	
Measuring range	91 ... 100 %
Accuracy	±3%
Temperature	
Measuring range	-20 ... +60 °C
Accuracy	±0.5 % FS

General technical data	
Outputs	4 ... 20 mA
Display type	without display
Interface	RS485
Response time	300 mS
Warm-up time	15 min
Mounting	Wall mounting
Communication	Modbus RTU
Performance	1,5 W
Transmission format	8N1, 8N2, 8O1
Baud rate	4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s
Hysteresis	1 % r.F.
Temperature influence	±25% of the basic error per 10°C
Protection class (device)	IP65
Power supply	19 ... 30 V DC
Operating conditions	-30 ... 85 °C , 0 ... 95 % RH
Storage conditions	-30 ... 85 °C , 0 ... 95 % RH
Dimensions (L x W x H)	118 x 35 x 58 mm
Weight	125 g