HUMIDITY SENSOR

PCE-P18L



- **sensor for temperature and humidity**
- **4 ... 20 mA output**
- **easy wall mounting**
- **for permanent monitoring**
- **various filters available**
- **small size**

The humidity sensor was developed and constructed for the permanent monitoring of temperature or humidity. The compact dimensions of the humidity sensor are the characteristics of this instrument. The measurement of the temperature and humidity is via a semiconductor component. Internally, the physical quantities to be measured are converted toa 4 ... 20 mA standard signal. The power of this humidity sensor measuring instrument is connected to a DC voltage into a current loop and is thus ideally suited fordisplayswith transmitter power supply. But it can also be connected to the paperless recorder for long-term monitoring of environmentalconditions.

Specification

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

General technical data	
Outputs	4 ... 20 mA
Display type	without display
Warm-up time	15 min
Mounting	Wall mounting
Performance	1,5 W
Hysteresis	1 % r.F.
Temperature influence	±25% / 10°C
Maximum load resistance	500 Ω
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

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