AIR HUMIDITY METER

PCE-DPM 10



- **Taupunkt Messbereich von -100 ... +50 °C**
- **Druckbereich bis 15 bar Differenzdruck**
- **Datenlogger für bis zu 100 Millionen Messwerte**
- **Alarmgrenzen einstellbar.**
- **Touch LC Display**

The precise air humidity meter from PCE Instruments enables the reliable measurement of humidity and temperature in a measuring range of up to 15 bar. The air humidity meter is versatile and provides accurate results for air and various gases.
The air humidity meter offers a robust and handy design, the housing of the air humidity meter was specially developed for industrial applications.
The operation of the air humidity meter is particularly easy thanks to the touch display, which further emphasises the user-friendliness of the air humidity meter. The air humidity meter offers the option of storing your own calibration data, e.g. to quickly adjust the pressure to the current atmosphere.
In addition, the air humidity meter is able to display the humidity in many different units of measurement, saving the user the hassle of converting the values. The quick coupling included in the scope of delivery enables the air humidity meter to be used quickly and also saves time during measurement.
In addition, the air humidity meter has a air humidity meter function for up to 100 million measured values. These can be conveniently read out and processed via the USB C interface and the USB-C stick supplied.
When the optional Smart Features are purchased, the air humidity meter can not only measure the current dew point, but also create a forecast for the final value of the dew point.

Specification

Differential pressure	
Measuring range	0 ... 15 bar
Resolution	0,01 bar
Accuracy	0.5 % of range
Dew point	
Measuring range	-100 ... +50 °C
Resolution	0,1 °C
Accuracy	±3°C
Dew point	
Measuring range	0 ... 20 °C
Resolution	0,1 °C
Accuracy	±1°C
Dew point	
Measuring range	-60 ... +50 °C
Resolution	0,1 °C
Accuracy	±2°C
Dew point	
Measuring range	-100 ... -60 °C
Resolution	0,1 °C
Accuracy	±3°C
Temperature	
Measuring range	-30 ... +50 °C
Resolution	0,1 °C
Accuracy	±0.3 °C

General technical data	
Measuring functions	Average value
Units	°C, °F, bar, psi, MPa, °C Td, %RH, g/m³ atm, mg/m³ atm, ppmv, g/kg, °C Td atm.
Connections	G1/2 inch with 6mm quick coupling
Display type	LC touch display
Display size	3,5 Inch
Display refresh rate	1 x per second
Storage medium	Internal memory
Storage capacity	100 Million values
Storage interval from	1 s
Storage interval to	60 s
Interface	USB-C
Standard(s)	ISO8573-1
Standard(s) additional information	Evaluation according to ISO8573-1 only possible when purchasing the additional functions! Item no. PCE-DPM 10-SF
Current consumption meter	400 mA DC
Sensor	QCM (Quartz crystal microbalance)
Response time	1 s
Measured medium	Air, Nitrogen, Argon, Carbon dioxide, Oxygen
Operating time	8 h
Operating time additional information	The charging process takes approx. 3 h.
Automatic power-off from...to	10 ... 60 min.
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Menu language	English, Spanish, German, Chinese, Japanese, French, Korean
Protection class (device)	IP30
Power supply	5V DC 3 A (via USB-C)
Connector type	Device-europlug
Capacity	3500 mAh
Operating conditions	0 ... 40 °C , 0 ... 80 % RH
Storage conditions	0 ... 40 °C , 0 ... 80 % RH
Dimensions (L x W x H)	310 x 100 x 60 mm
Other dimensions	PTFE hose 1.5 m with 6 mm quick coupling
Weight	775 g

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