

Thermo-Hygrometer PCE-DPM 3



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Sintered cap to protect against moisture and dust / Data can be read out via any computer / Data memory for approx. 50,000 measurement data / CSV format / Battery can be recharged via micro-USB / Easy operation

The thermo-hygrometer is a mobile testing device for monitoring the quality of compressed air on stationary and mobile compressed air generators. This thermo-hygrometer measures the temperature, the relative humidity, H₂O and calculates the current dew point up to an ambient pressure of 20 bar. Thanks to the sintered cap, the thermo-hygrometer in the pressure lines is protected from dirt, moisture and high flow speeds. This increases the service life of the thermo-hygrometer's sensors.

The data memory of the thermo-hygrometer enables the course of the measurement parameters to be recorded in a pressure line. The data recorded by the thermo-hygrometer is permanently stored in the internal memory. The memory can be read out directly on the thermo-hygrometer. The thermo-hygrometer can also be connected to an operating system independent computer via the micro USB interface. This is made possible because the thermo-hygrometer is recognized as a mass data storage device. The data saved by the pressure dew point measuring device are saved in CSV format. The stored measurement data can thus be evaluated using any spreadsheet program.

- ▶ Data storage with CSV data export
- ▶ Dew point, H₂O, temperature, humidity measurement
- ▶ For inline measurement of pressure pipes
- ▶ Battery operation for mobile use
- ▶ With G1 / 2 "connection thread
- ▶ Sensors protected with sintered filters

Specifications

Measurement

Measuring range

Resolution

Accuracy at 20°C / 68°F

Temperature

-10 ... 60°C / 14 ... 140°F

0.01°C / 0.018°F

-10 ... 50°C / 14 ... 122°F: ± 0.3°C / 0.5°F

Measurement

Measuring range

Resolution

Accuracy at 20°C / 68°F

Relative humidity

0 ... 100%

0.01%

< 5%:

± (0.025% + 17.5% of mv)

> 5%: ± (1% + 5% of mv)

> 15%: ± (2% + 3% of mv)

Measurement

Measuring range

Resolution

Accuracy

Dew point*

-50 ... 30°C / -58 ... 86°F

0.01°C / 0.018°F

-40 ... 20°C / -40 ... 68°F: ± 2°C / 3.6°F

-50 ... -40°C / -58 ... -40°F: ± 2.5°C / 4.5°F

*The accuracy of the dew point relates to an ambient temperature of 16 ... 25°C / 61 ... 77°F

Measurement

Measuring range

Resolution

Accuracy at 20°C / 68°F

H2O

40 ... 20,000 ppm

1 ppm

± (7.3 ppm + 8.3%)

Environmental conditions

-10 ... 60°C / 14 ... 140°F

0 ... 20 bar (absolute)

Response time at: 0.2 m / s, 1 bar,
20°C / 68°F, 63% RH [90%]

0 ... 40°C / 32 ... 104°F: 20s [120s]

-40 ... 0°C / -40 ... 32°F: 10s [20s]

Data storage

For approx. 50,000 measuring points

Adjustable storage rates

10 seconds

1, 5, 10, 20, minutes

Adjustable recording time

1, 5, 12, 24, 48 hours

File format

CSV

Cable length

Approx. 1.5 m / 4.9 ft

Thread

G1 / 2"

Thread length

1.2 cm

Probe length

5.2 cm

Probe width

1.2 cm

Display

2.3" LCD

Power supply

Battery 3.7V DC, 3000-mAh

Power supply power pack

Primary: 100 ... 240V AC, 0.25 A

Secondary: 5V DC, 1 A

Interface 7 mains connection

Micro USB

Weight

Approx. 610 g / 1.3 lbs

More information

Manual



More product info



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