

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

Subject to change

Specifications

Measurement

Measuring range	-10 ... 60°C / 14 ... 140°F
Resolution	0.01°C / 0.018°F
Accuracy at 20°C / 68°F	-10 ... 50°C / 14 ... 122°F: ± 0.3°C / 0.5°F

Measurement

Measuring range	0 ... 100%
Resolution	0.01%
Accuracy at 20°C / 68°F	< 5%: ± (0.025% + 17.5% of mv) > 5%: ± (1% + 5% of mv) > 15%: ± (2% + 3% of mv)

Measurement

Measuring range	-50 ... 30°C / -58 ... 86°F
Resolution	0.01°C / 0.018°F
Accuracy	-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	40 ... 20,000 ppm
Resolution	1 ppm
Accuracy at 20°C / 68°F	± (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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