

# PCE-PDFL 10

## DESCRIPTION

**Thermometer with abs. air pressure sensor / measuring range -30 ... 60°C (-22 ... 140°F) /  
instant data export via PDF and CSV / software / LC display / USB-A /  
data memory for 13340 measuring points / optional with ISO calibration  
certificate**

The thermometer has a measuring range of -30 ... 60°C / -22 ... 140°F and can be used in cold environments. In addition to temperature and humidity measurement, the thermometer can also measure the absolute air pressure in the ambient atmosphere in a measuring range between 700 ... 1100 hpa. Due to the different sensors, the thermometer already covers a wide range of measuring tasks. Typical applications of the thermometer are, for example, the monitoring of refrigeration facilities, greenhouses or also in the monitoring of an office workplace.

The measured values are stored on the internal memory of the thermometer. The thermometer has a memory capacity of 13340 measuring points. Once a measurement run has been completed, the stored measurement data can be read out from the thermometer independently of the operating system. This is possible because the thermometer is recognised as a mass data memory. When storing the measurement data, the measurement points are saved in a .pdf and in a .csv file.

With the corresponding software for the thermometer, the measured values can be displayed graphically. In addition, settings for the thermometer can be made via the software. For example, the storage interval can be set between 1 minute and 24 hours, visual alarm limits and start/stop pulses can be set for the thermometer. Optionally, the thermometer can be equipped with an ISO calibration certificate.

## HIGHLIGHTS

- Temperature, relative humidity, air pressure
- Software for evaluating the measured data
- Measuring range: -30 ... 60°C / -22 ... 140°F
- Data memory with 13340 measuring points
- Data export immediately in PDF and CSV
- Optionally with ISO calibration certificate

# SPECIFICATION

<b>Temperature</b>	
Measuring range	-30 ... 60°C / -22 ... 140°F
Resolution	0.1°C / °F
Accuracy	±1.0°C / 1.8°F bei -30 ... 0°C / -22 ... 32°F
	±0.5°C / 0.9°F bei 0 ... 60°C / 32 ... 140°F
<b>Relative humidity</b>	
Measuring range	0 ... 100% r. F.
Resolution	0.1% r. F.
Accuracy	±5.0% r. F. bei 0 ... 20% r. F. und 80 ... 100% r. F.
	±3.5% r. F. bei 20 ... 40% r. F. und 60 ... 80% r. F.
	±3.0% r. F. bei 40 ... 60% r. F.
<b>Absolute air pressure</b>	
Measuring range	700 ... 1100 hpa
	525.0 ... 825.0 mmHg
	20.67 ... 32.48 inHg
Resolution	1 hpa
	0.1 mmHg
	0.01 inHg
Accuracy	±3 hpa
	±2.5 mmHg
	±0.1 inHg
<b>Further specifications</b>	
Memory	13340 measuring points
Data export	.pdf, .csv
Storage rate	1 minute ... 24 hours
Interface	USB-A
Power supply (USB-A)	5V DC, 0.1 A
Power supply (battery)	3V battery (CR2450)

Battery life	Approx. 3 years
Display	1/4" LCD Display
Ambient conditions	-30 ... 60°C / -22 ... 140°F, < 95% r. F., non-condensing
Dimensions	75 x 35 x 15 mm / 3 x 1.4 x 0.6 in
Weight	33 g / < 1 lb

# DELIVERY SCOPE

- 1 x PCE-PDFL 10 Thermometer
- 1 x 3V button battery (CR2450)
- 1 x Software CD
- 1 x Instruction manual