TEMPERATURE DATA LOGGER

PCE-HTD 140



- **Suitable for autoclave validation and high-temperature processes**
- **Measuring range: -40 ... 140°C / -40 ... 284°F**
- **Sensor type: PT1000**
- **Start delay: 0 ... 24 h**
- **PDF and Excel reports**
- **Windows compatible**
- **Programmable measuring interval**
- **USB-C interface**
- **IP68 protection rating**

The Temperature Data Logger is designed for precise monitoring and documentation of temperature profiles in high-temperature processes, particularly during autoclave validation and industrial testing procedures. The Temperature Data Logger was developed for applications requiring reliable temperature recording under high temperatures, pressure conditions, and demanding environments.

The Temperature Data Logger features a temperature measuring range of -40 ... 140°C / -40 ... 284°F, with a resolution of 0.1°C / 0.2°F and an accuracy of ±0.4°C / 0.7°F. A high-quality PT1000 temperature sensor provides stable and precise temperature measurement. The robust IP68 stainless steel housing protects the device against dust and permanent immersion, making it particularly suitable for demanding industrial applications.

The device offers storage capacity for up to 48,000 measured values and allows a freely configurable measuring interval from 1 second ... 120 minutes. A start delay of 0 ... 24 hours can also be programmed, allowing measurements to be flexibly adapted to different process sequences. Recorded measurement data is read out via the USB interface and can be automatically documented as a PDF or Excel report in 6 languages.

Thanks to the plug-and-play function, no additional software installation or driver is required.

Specification

Temperature	
Measuring range	-40 ... +140 °C
Resolution	0,1 °C
Accuracy	±0.4°C

Temperature	
Measuring range	-40 ... +284 °F
Resolution	0,1 °F
Accuracy	±0.7°F

General technical data	
Storage medium	Internal memory
Storage capacity	48000 Values
Memory capacity Additional information	The data are stored in the device and can later be read out via USB.
Interface	USB-C
Sensor	Pt1000
Housing	Stainless steel
Measuring interval of	1 s
measurement interval up to	120 min.
file format	PDF, Excel
Menu language	English (US), English (GB), German, French, Italian, Spanish, Portuguese
Protection class (device)	IP68
Power supply	Battery
Battery/battery	1 x 3,6 V 1/2 AA 3.6 V LI-$SOCl_2$ (LS 14250) , lithium
Battery capacity	1000 mAh
Operating conditions	-40 ... 140 °C , 0 ... 80 %RH
Storage conditions	-40 ... 85 °C , 0 ... 90 %RH
Dimensions (L x W x H)	90 x 32 x 32 mm
Weight	178 g

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