TEMPERATURE DATA LOGGER

PCE-HTD 140



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

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

Temperature Data Logger features a temperature measuring range of -40°C ... 140°C, with a resolution of 0.1°C and an accuracy of ±0.4°C. A high-quality PT1000 temperature sensor is used, enabling stable and precise temperature recording. The robust IP68 stainless steel housing protects the device against dust and continuous immersion, making it particularly suitable for demanding industrial applications.

The device offers storage capacity for up to 48,000 readings and allows a freely adjustable measuring interval of 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 via the USB interface and can be automatically documented as a PDF or Excel report in 6 languages.

The plug-and-play function means that no additional software installation or driver is required. Further features include the selection of °C and °F temperature units, configurable alarm limits, a replaceable lithium battery and a multilingual reporting function.

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 from	1 s
Measuring interval to	120 min
file format	PDF, Excel
Menu language	English, English (GB), German, French, Italian, Spanish, Portuguese
Protection class (device)	IP68
Power supply	Battery
(Rechargeable) battery	1 x 3,6 V 1/2 AA 3.6 V LI-$SOCl_2$ (LS 14250) , lithium
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