

12-CHANNEL DATA LOGGER THERMOMETER

PCE-T 1220



- » Measuring range from -200 ... 1800°C / -328 ... 3272°F
- » High accuracy of $\pm (0.04 \% \text{ v.Mw.} + 0.3 \text{ K})$ for type K
- » Thermocouple types K, J, S, R, E, T, N, B
- » Memory for 10 million measured values
- » Adjustable alarm limits
- » 12 input channels
- » PC software

With the 12-Channel Data Logger Thermometer, the measured values of several temperature sensors can be recorded, displayed and archived simultaneously. It supports eight different thermocouple types (K, J, E, T, N, S, R, B), which can be connected to the 12 measuring channels. The large measuring range of -200 ... 1800°C / -328 ... 3272°F makes the 12-channel data logger thermometer ideal for a wide range of applications - from cryogenic temperatures to high-temperature processes. Particularly noteworthy is the high measuring accuracy, especially with type K thermocouples with $\pm(0.04\%$ of the mean value + 0.3 K).

The measured values of the 12-channel data logger thermometer are displayed on a large 7-inch display, which provides a clear and easy-to-read visualization of all 12 measured temperatures. In addition, the maximum, minimum and average values since the start of measurement can be displayed in a separate view. Each channel can be individually compared with the other channels, whereby the current measured value and the difference to a selected reference channel are displayed.

Another highlight of the 12-channel data logger thermometer is the long battery life: with a measuring interval of 10 minutes, the data logger lasts up to 24 days in battery mode.

Specification

Temperature K-type	
Measurement range up to	-200 ... +1370 °C
Resolution	0,1 °C
Accuracy	±(0.04 % of Rd +0.3 K)
Temperature J-type	
Measurement range up to	-200 ... +1050 °C
Resolution	0,1 °C
Accuracy	±(0.04 % of Rd +0.3 K)
Temperature S-type	
Measurement range up to	0 ... 1750 °C
Resolution	0,1 °C
Accuracy	±(0.05 % of Rd +1 K)
Temperature R-type	
Measurement range up to	0 ... 1750 °C
Resolution	0,1 °C
Accuracy	±(0.05 % of Rd +1 K)
Temperature E-type	
Measurement range up to	-200 ... +850 °C
Resolution	0,1 °C
Accuracy	±0.6 K
Temperature T-type	
Measurement range up to	-200 ... +400 °C
Resolution	0,1 °C
Accuracy	±0.6 K
Temperature N-type	
Measurement range up to	-200 ... +1300 °C
Resolution	0,1 °C
Accuracy	±0.6 K
Temperature B-type	
Measurement range up to	600 ... 1800 °C
Resolution	0,1 °C
Accuracy	±(0.05 % of Rd +1 K)

General technical data	
Number of measuring channels	12
Units	°C, °F
Display type	LCD
Display size	7 Inch
Storage capacity	100 Data records
Memory capacity (additional information)	Up to 100,000 measured values per data record
Storage interval from	1 s
Storage interval to	12 h
Interface	USB-C
Operating time additional information	24 days @ 10 min. storage interval and screen off
Menu language	Turkish, English, Polish, Spanish, German, Chinese, Russian, Japanese, French, Danish, Italian, Dutch, Portuguese
Protection class (device)	IP52
Power supply	3.7 V
(Rechargeable) battery	1 x 3,7 V internal , Lithium-ion polymer battery
Capacity	10000 mAh
Operating conditions	-20 ... 65 °C , 10 ... 95 % RH
Storage conditions	-20 ... 65 °C , 10 ... 95 % RH
Dimensions (W x H x D)	248 x 145 x 50 mm
Weight	730 g