HVAC Meter PCE-T 420 4-channel

4-Channel HVAC Meter for Thermocouples / 4 Channels for Various Thermocouples / Data Storage for 10 Million Readings / Alarm Thresholds / Various Display Options / Battery-Powered Handheld Device

The 4-channel HVAC Meter for thermocouples allows for the display and archiving of multiple temperature sensors simultaneously. It can be connected to up to 8 different types of thermocouples. Notably, the data logger offers high accuracy, especially with Type K thermocouples, with an accuracy of ±(0.04% + 0.3 °C).

The measurement overview of the 4-channel HVAC Meter provides a quick overview of the 4 displayed temperatures. Another view displays the maximum, minimum, and average values since the start of measurement. Additionally, each channel can be compared with all other channels, showing the current measurement value of the channel and the difference from the reference channel. The 4-channel HVAC Meter can store up to 100 data sets, each with a maximum of 100,000 readings. Adjustable alarm thresholds for upper and lower temperature values can highlight measurements in red. Using the included PC software, data stored by the 4-channel HVAC Meter can be imported, graphically represented, analyzed, and archived.

The 4-channel HVAC Meter for thermocouples is well-suited for areas where temperature monitoring is critical. Possible applications include furnace inspections, temperature-sensitive component development processes, or laboratory experiments. For the temperature data logger, we offer a wide range of thermocouple probes, which can be found in the accessories section.

▶ Measurement range from -200 ... +1800 °C
▶ Compatible with 8 types of thermocouples
▶ Adjustable storage interval from 1 s to 12 h
▶ Display of maximum, minimum, and average values
▶ Storage capacity for 10 million readings
▶ Adjustable alarm thresholds

Subject to change

Specifications

Temperature Type

K

Measurement Range	-200 °C ... +1370 °C
Resolution	0.1 °C
Accuracy	± (0.04% + 0.3 °C)

Temperature Type

J

Measurement Range	-200 °C ... +1050 °C
Resolution	0.1 °C
Accuracy	± (0.04% + 0.3 °C)

Temperature Type

S

Measurement Range	0 °C ... +1750 °C
Resolution	0.1 °C
Accuracy	± (0.05% + 1 °C)

Temperature Type

R

Measurement Range	0 °C ... +1750 °C
Resolution	0.1 °C
Accuracy	± (0.05% + 1 °C)

Temperature Type

E

Measurement Range	-200 °C ... +850 °C
Resolution	0.1 °C
Accuracy	± 0.6°C

Temperature Type

T

Measurement Range	-200 °C ... +400 °C
Resolution	0.1 °C
Accuracy	± 0.6°C

Temperature Type

N

Measurement Range	-200 °C ... +1300 °C
Resolution	0.1 °C
Accuracy	± 0.6°C

More information

Subject to change

Temperature Type

B

Measurement Range	+600 °C ... +1800 °C
Resolution	0.1 °C
Accuracy	± (0.05% + 1 °C)

General Technical Data

Inputs	**4 channels** for thermocouples
Display Type	LCD
Display Size	2.8 inches
Storage Capacity	100 data sets
	up to 100,000 readings per data set
Storage Interval	1 ... 43,200 s
Data Interface	USB-C
Power Supply	USB 5V DC 500mA
Battery Capacity	2,500 mAh
Battery Voltage	3.7 V
Battery Type	Lithium-Ion Polymer Battery
Operating Duration	15 h
	Approx. 15 ... 20 h (depending on display brightness)
Menu Language	English, German, French, Spanish,Italian, Dutch, Portuguese, Turkish, Polish, Russian, Chinese, Japanese, Danish
Protection Class	IP52
Operating Conditions	-20 ... 65 °C, 10 ... 95% r.H.
Dimensions	165 x 85 x 32 mm (L x W x H)
Weight	255 g