TEMPERATURE METER

PCE-WBGT 10



- **Measuring functions: MIN, MAX, HOLD, AVG**
- **Indoor or outdoor mode - selectable**
- **Data logger 8 MB**
- **WBGT alarm: adjustable, acoustic**
- **Real-time display**
- **Automatic switch-off**
- **Adjustable standby mode**
- **Convertible units °C and °F**
- **1.8 inch LCD display**
- **Rechargeable via USB-C cable**

The temperature meter is used to assess heat stress in working environments, sports facilities or industrial plants. It is used both indoors and outdoors to precisely measure climatic conditions and ensure the safety of people exposed to heat.

The measuring range of the device covers a large number of climate-relevant variables: The WBGT value can be recorded from 0 ... 50°C / 32 ... 122°F, the sphere temperature (TG) ranges from -20 ... 125°C / -4 ... 257°F, as does the air temperature (AIR). The dew point (DP) is measured between -20...60°C / -4 ... 140°F, the wet bulb temperature (WB) covers the same range. The device also records the relative humidity (RH%) in the range from 0 to 100%.

The temperature meter offers a range of practical functions that make everyday use particularly easy. In addition to the display of MIN, MAX, HOLD and AVG, it is possible to switch between indoor and outdoor mode. The integrated data logger with 8 MB memory records up to around 260,000 measured values, which can be easily transferred to a PC via USB-C. Suitable software is available for reading out and analyzing the data, with which measurement series can be clearly displayed and saved. The storage interval can be flexibly set from 0 seconds to 10 minutes.

An acoustic, adjustable WBGT alarm provides additional safety, while the real-time display, automatic switch-off and customizable standby mode ensure convenient operation.

Specification

Wet bulb temperature	
Measuring range	-20 ... 0 °C
Resolution	0,1 °C
Accuracy	±3°C
Wet bulb temperature	
Measuring range	0 ... 50 °C
Resolution	0,1 °C
Accuracy	±1.5 °C
Wet bulb temperature	
Measuring range	50 ... 60 °C
Resolution	0,1 °C
Accuracy	±3°C
WBGT	
Measuring range	0 ... 50 °C
Resolution	0,1 °C
Accuracy	±0.3°C
Dew point	
Measuring range	-20 ... 0 °C
Resolution	0,1 °C
Accuracy	±3°C
Dew point	
Measuring range	0 ... 50 °C
Resolution	0,1 °C
Accuracy	±1.5°C
Dew point	
Measuring range	50 ... 60 °C
Resolution	0,1 °C
Accuracy	±3°C
Relative humidity	
Measuring range	0 ... 20 %
Resolution	1 %
Accuracy	±5% @ 25°C
Relative humidity	
Measuring range	20 ... 80 %
Resolution	1 %
Accuracy	±3%
Relative humidity	
Measuring range	80 ... 100 %

General technical data	
Measuring functions	MIN, MAX, HOLD, AVG
Units	°C, °F
Display type	LCD with backlight
Display size	1,8 Inch
Storage medium	Internal memory
Storage capacity	8 MB
Memory capacity (additional information)	8 MB EEPROM for approx. 260,000 measured values, transferable to PC via USB-C only.
Storage interval from	0 s
Storage interval to	10 min.
Interface	USB-C
Warm-up time	30 s
Operating time	72 h
Automatic power-off from...to	15 ... 360 min.
Alarm	Acoustic
Dimensions	Sensor ball: Ø 46 mm
Alarm settings	0 ... 9999 °C
Menu language	English, English (GB)
Power supply	5 V
(Rechargeable) battery	1 x 3,7 V internal , Lithium-ion battery
Capacity	2000 mAh
Operating conditions	0 ... 50 °C , 0 ... 95 % RH
Storage conditions	-20 ... 60 °C , 0 ... 99 % RH
Dimensions (L x W x H)	200 x 62 x 38 mm
Weight	187 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 4649020
info@pce-instruments.co.uk

Resolution	1 %
Accuracy	±5% @ 25°C
Temperature	
Measuring range	-20 ... 0 °C
Resolution	0,1 °C
Accuracy	±1 °C
Temperature	
Measuring range	0 ... 60 °C
Resolution	0,1 °C
Accuracy	±0.3 °C
Temperature	
Measuring range	60 ... 125 °C
Resolution	0,1 °C
Accuracy	±1 °C