

Thermometer PCE-HWA 30



Thermometer with data logger / Beaufort scale / Measuring range 0.3 ... 30.0 m/s / Battery operation / Transport case / Rechargeable via 5 V DC micro-USB interface / Telescopic arm / Swiveling head

The thermometer measures the flow velocity according to the hot wire principle. This guarantees a particularly compact design. The measuring range of the hot wire anemometer is between 0.3 ... 30.0 m/s / 0.98 ... 98.4 ft/s. In addition to the flow velocity, the hot wire anemometer can measure the volume flow and the ambient temperature. For each measurement, a Beaufort scale is displayed next to the measured value. The current wind strength can be read from this scale.

With the integrated data memory, up to 960 measured values can be recorded with the thermometer. The data can be read directly on the hot wire anemometer. Also, the measured values from the hot wire anemometer can be transferred to a PC via the micro USB interface. Suitable software for the hot wire anemometer is available in the PCE Instruments download portal for further processing of the data.

For optimal alignment, the telescopic arm of the thermometer can be extended up to 740 mm / 29.1". In addition, the head of the hot wire anemometer is semi-rigid and can therefore be aligned in different ways. The battery of the hot wire anemometer with a capacity of 1000 mAh enables mobile use. To recharge the battery, the hot wire anemometer must be connected to a 5 V DC micro-USB power supply.

- ▶ Hot wire anemometer with data storage
- ▶ Software for reading out the measured values
- ▶ Swiveling telescopic arm
- ▶ Measuring range 0.3 ... 30.0 m/s / 0.98 ... 98.4 ft/s
- ▶ Data memory for 960 measured values
- ▶ Beaufort scale

Specifications

Wind speed	m/s
Measuring range	0.3 ... 30.0 m/s
Resolution	0.01 m/s
Accuracy	±3 % ±0.1 m/s of measured value

Wind speed	ft/min
Measuring range	60 ... 5904 ft/min
Resolution	0.01, 0.1, 1 ft/min
Accuracy	±3 % ±20 ft/min of measured value

Wind speed	knots
Measuring range	0.6 ... 58.3 knots
Resolution	0.01 knots
Accuracy	±3 % ±0.2 knots of measured value

Wind speed	km/h
Measuring range	1.0 ... 108.0 km/h
Resolution	0.01 km/h
Accuracy	±3 % ±0.4 km/h of measured value

Wind speed	mph
Measuring range	0.7 ... 67 mph
Resolution	0.01 mph
Accuracy	±3 % ±0.2 mph of measured value

Volume flow	CMM (m³/min)
Measuring range	0 ... 999900 m³/min
Resolution	0.001 ... 100 m³/min
Adjustable area	0.001 ... 999 m²

Volume flow	CFM (FT³/min)
Measuring range	0 ... 999900 ft³/min
Resolution	0.001 ... 100 m³/min
Adjustable area	0.001 ... 999 m³

Temperature measurement	°C
Measuring range	0 ... 45 °C
Resolution	0.1 °C
Accuracy	±1.0 °C

Temperature measurement °F	
Measuring range	32 ... 113 °F
Resolution	0.18 °F
Accuracy	±1.8 °F

More information

CE Certificate



More product info



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Further specifications

Probe length	740 mm / 29.1"
Probe diameter	Ø0.8 ... 1.2 mm / 0.031 x 0.047"
Interface	Micro USB
Data memory	960 measured values
Power supply	3.7 V, 1000 mAh battery 5 V DC, 1 A Micro USB interface
Power consumption	15 ... 35 mA without background lighting 70 ... 100 mA with background lighting
Battery discharged display	<3.4 V
Operating conditions	0 ... 50 °C / 32 ... 122 °F, 40 ... 80 % RH, non-condensing
Storage conditions	-20 ... 60 °C / -4 ... 140 °F, < 80 % RH, non-condensing
Dimensions	70 x 194 x 35 mm / 2.7 x 7.6 x 1.3"
Weight	400 g / 14 oz

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