THERMOMETER

PCE-HWA 30



- **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**

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 270 ... 990 mm / 10.63 ... 38.98 / 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.

Specification

Speed	
Measuring range	0,3 ... 30 km/h
Resolution	0.01 km/h
Accuracy	±3 % ±0.1 m/s of Rd
Speed	
Measuring range	60 ... 5904 ft/min
Resolution	0.01 ft/min
Accuracy	±3 per cent ±20 feet per minute v. Mw.
Speed	
Measuring range	0,6 ... 58,3 knots
Resolution	0.01 knots
Accuracy	±3% ±0.2 knots v. Mw.
Speed	
Measuring range	1 ... 108 km/h
Resolution	0.01 km/h
Accuracy	±3% ±0.4 km/h v. Mw.
Speed	
Measuring range	0,7 ... 67 mph
Resolution	0.01 mph
Accuracy	±3 per cent ±0.2 miles per hour relative to mean sea level.
Volume flow	
Measuring range	0 ... 999900 m^3/min
Resolution	0,001 m^3/min
Volume flow	
Measuring range	0 ft^3/min ... 999900 CFM
Resolution	0,001 m^3/min
Temperature	
Measuring range	0 ... 45 °C
Resolution	0,1 °C
Accuracy	±1.0 °C
Temperature	
Measuring range	32 ... 113 °F
Resolution	0,18 °F
Accuracy	±1.8 °F

General technical data	
Cable length	1,5 m
Measuring functions	HOLD, MAX, MIN
Display type	LCD
Display size	3 Inch
Display refresh rate	1 x per second
Measuring rate	1 Hz
Storage medium	Internal memory
Storage capacity	960 Values
Storage interval from	0 s
Storage interval to	9999 s
Interface	Micro-USB
Automatic power-off	10 min
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Dimensions	Telescopic pole: 265 ... 875 mm Probe diameter: Ø 9.3 mm
Menu language	English, English (GB)
Protection class (device)	IP20
Power supply	5V DC, 1 A
(Rechargeable) battery	1 x 3,7 V internal , Lithium polymer battery
Capacity	1000 mAh
Operating conditions	0 ... 50 °C , 40 ... 80 % RH
Storage conditions	-20 ... 60 °C , 0 ... 80 % RH
Dimensions (L x W x H)	194 x 74 x 35 mm
Weight	236 g

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