

PITOT TUBE ANEMOMETER

PCE-HVAC 2



- » Measures air speed, air pressure, airflow
- » Displays ambient temperature
- » Zero adjustment function
- » MIN, MAX, AVR, REC and HOLD functions
- » Backlit LCD
- » Dual display on the LCD
- » Suitable for high flow rates
- » Internal memory for 99 measurement values per parameter
- » USB cable included
- » Downloadable PC-compatible software
- » Real-time measurement

Pitot Tube Anemometer for High Flow Velocities

The PCE-HVAC-2 is a pitot tube anemometer for measuring differential pressure, airflow, air velocity and temperature. Due to its design, the anemometer equipped with an angled pitot tube, is particularly suitable for the rapid and precise determination of high air velocities of up to 80 m / s. During the measurement of the flow velocity, this pitot tube anemometer offers a choice of units (m / s, knots, km / h, mph, ft / min).

The 33.5-cm long pitot tube with a diameter of only eight millimetres, attached to the pitot tube anemometer, makes the application in confined work spaces, small openings and pipe systems possible. The manufacturer has equipped the meter with some practical features, which makes its application versatile. So that it could be mounted on a tripod, the pitot tube anemometer has a thread on the bottom side. Thus, in this position, the user has two free hands which provides a much better flexibility in the handling of the pitot tube. The supplied two pressure hoses, each 85 centimetres long, are attached to the top of the pitot tube anemometer and then can be connected to the L-shaped pitot tube.

In order to be able to optimally read-out the measurement results even under the unfavourable lighting conditions, the manufacturer has provided the pitot tube anemometer with a large backlit LC display.

Specification

Speed	
Measuring range	1 ... 80 m/s
Resolution	0.01 m/s
Accuracy	±2.5 % of Rd
Speed	
Measuring range	200 ... 15733 ft/min
Resolution	1 ft/min
Accuracy	depending on the air velocity and the size of the air duct
Speed	
Measuring range	3,6 ... 288 km/h
Resolution	0.1 km/h
Accuracy	depending on the air velocity and the size of the air duct
Speed	
Measuring range	2,24 ... 178,66 mph
Resolution	0.01 mph
Accuracy	depending on the air velocity and the size of the air duct
Speed	
Measuring range	2 ... 154,6 knots
Resolution	0.1 knots
Accuracy	depending on the air velocity and the size of the air duct
Air pressure	
Measuring range	0 ... 5000 hPa
Resolution	1 hPa
Accuracy	±0.3% FS at 25°C
Air pressure	
Measuring range	0 ... 0,7252 psi
Resolution	0,0001 psi
Accuracy	±0.3% FS at 25°C
Air pressure	
Measuring range	0 ... 50 mbar
Resolution	0,01 mbar
Accuracy	±0.3% FS at 25°C
Air pressure	
Measuring range	0 ... 20,07 inH ₂ O
Resolution	0,01 inH ₂ O
Accuracy	±0.3% FS at 25°C
Air pressure	
Measuring range	0 ... 509,8 mmH ₂ O

General technical data	
Measuring functions	HOLD, MAX, MIN
Display type	LCD with backlight
Display size	2,5 Inch
Display refresh rate	1 x per second
Storage medium	Internal memory
Storage capacity	297 Values
Memory capacity (additional information)	99 measured values per parameter
Interface	Micro-USB
Response time	0,5 s
Automatic power-off	20 min
Repeatability	0,2 % (Max. ±0.5% FS)
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Dimensions	Pitot tube: - Length: 335 mm - Tube diameter: Ø 8 mm - Head diameter: Ø 8 mm - Head length: 195 mm - Length of measuring hoses: 850 mm each
Linearity	0.29 % of range.
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	1 x 9 V 9V block , Alkali-manganese
Capacity	640 mAh
Operating conditions	0 ... 50 °C , 0 ... 90 % RH
Storage conditions	-10 ... 60 °C , 0 ... 90 % RH
Dimensions (L x W x H)	225 x 95 x 46 mm
Weight	600 g

Resolution	0,1 mmH ₂ O
Accuracy	±0.3% FS at 25°C
Volume flow	
Measuring range	0 ... 99999 ft ³ /min
Resolution	0,0001 ft ³ /min
Accuracy	±2.5 % of Rd
Volume flow	
Measuring range	0 ... 99999 m ³ /min
Resolution	0,001 m ³ /min
Accuracy	±2.5 % of Rd
Temperature	
Measuring range	0 ... 50 °C
Resolution	0,1 °C
Accuracy	±1 °C
Temperature	
Measuring range	32 ... 122 °F
Resolution	0,1 °F
Accuracy	±2 °F