



Wind speed meter

PCE-HVAC 2

DATA SHEET

PCE-HVAC 2 is a high-velocity multifunction manometer with a pitot tube. This portable manometer can be used to determine air speed, air pressure, air flow, differential pressure and ambient temperature. The pitot tube allows access through tiny openings to take measurements in small pipe systems and other confined spaces.

- Measures air velocities up to 80 meters per second (m / s)
- Zero, minimum, maximum, average, record and hold functions
- Stores to memory up to 99 measurement values per parameter

Stored measurement values can be called or read out later on the device itself or on the computer. The transfer to a computer works easily via a USB interface. A real-time measurement can also be carried out via this interface. When a USB connection is established, the measured values are displayed on the computer screen using the included software. In addition to an ergonomic design, the anemometer boasts a backlit display that enables use in low-light conditions.

- 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 interface and PC software included
- Real-time measurement
- Pitot tube measurement
- Differential pressure and standard measurement
- 2 connecting hoses (each 85 cm / 33.46 in)
- Adjustable measuring units (adjustable)
- ISO calibration available - see accessories for details

Technical specifications

Air pressure

Accuracy	± 0.3% of reading at 25° C / 77° F
Repeatability	± 0.2% (± 0.5% of reading)
Linearity / hysteresis	± 0.29% of reading
Pressure range	5000 Pa
Maximum pressure	10 psi
Response time	Typically 0.5 seconds
Measuring range	0.7252 psi 50.00 psi 20.07 inH2O 509.8 mmH2O 5000 Pa
Resolution	0.0001 psi 0.01 mbar 0.01 inH2O 0.1 mmH2O 1 Pa
Selectable units	Mbar, psi, inH2O, mmH2O, or Pa

Air speed

Measuring range	1 ... 80 m / s 200 ... 15733 ft / min 3.6 ... 288 km / h 2.24 ... 178.66 MPH
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Resolution	2 ... 154.6 knots 0.01 m / s 1 ft / min 0.1 km / h 0.01 MPH 0.1 knots
Accuracy	At m / s: $\pm 2.5\%$ of measured value At ft / min, Km / h, MPH and Node: Depending on the air speed and the size of the air duct

Flow rate

Measuring range	0 ... 99999 m ³ / min 0 ... 99999 ft ³ / min
Resolution	0.001 ... 100 m ³ / min 0.0001 ... 100 ft ³ / min

Temperature

Measuring range	0 ... + 50 ° C + 32 ... +122 ° F
Resolution	0.1 ° C 0.1 ° F
Accuracy	± 1 ° C ± 2 ° F

General

Diameter of pitot tube	8 mm / 0.3 in
Length of measuring hoses	Each 85 cm / 33.46 in
Total length of the tube	335 mm / 13.18 in
Low battery indicator	Yes
Power supply	9 V block battery
Operating conditions	0 ... +50° C / 32 ... 122° F / <90% RH non-condensing
Storage conditions	-10 ... +60° C / 14 ... 140° F / <90% RH non-condensing
Internal memory	99 measured values per parameter
Interface	USB
Display	LCD
Housing material	ABS plastic
Dimensions	Device: 280 x 95 x 45 mm / 11.02 x 3.7 x 1.7 in Pitot tube: 335 mm / 13.18 in - Ø 8 mm / 0,31 in
Weight (incl. pitot tube, battery and measuring hoses)	600 g / 1.3 lbs

Delivery contents

- 1 x PCE-HVAC 2 multifunction manometer with pitot tube
- 2 x connecting hoses
- 1 x 9 V block battery
- 1 x PC software
- 1 x USB cable
- 1 x carrying case
- 1 x user manual