

Air Flow Meters

PCE-A420

“Cup style” hand anemometer

This cup anemometer measures wind speed. Probably, the most important feature of this anemometer is that it eliminates completely the need to aim the sensor into the direction of the wind. Unlike conventional rotary vane anemometers that require precise aiming and alignment for good wind speed accuracy, a cup style anemometer can capture the wind in any direction just like the professionals use.

- Data memory: 100 point data logging (recall to display)
- Cup style, very easy to use
- Eliminates the need to aim into the wind
- Selectable units: m/s, km/h, ft/min, nudos y mile/h
- Min, Max and Hold functions
- Auto shut-off
- Large LCD
- ISO calibration certificate (optional)



Technical specifications

Wind speed (m/s)	0.9 to 35.0
(ft/min)	144 to 6895
(km/h)	2.5 to 126.0
(mph)	1.6 to 78.2
(knots)	1.4 to 68.0
(Beaufort)	---
Accuracy	±2 %
Resolution	0.1 m/s; 0.1 km/h; 0.1 knots 0.1 mph; 1 ft/min
Auto shut-off	yes
Min / Max / Peak / Hold	yes
Indicator	large LCD, 28 x 19 mm
Cup probe	Ø 135 mm, plastic
Operating temperature	0 to +50 °C, <80 % r.h.
Power	4 AAA batteries (1.5 V)
Enclosure	plastic
Dimensions	190 x 40 x 32 mm
Weight	180 g



Contents

PCE-A420 cup anemometer, batteries, carrying case and user's manual

Model No. Description

PCE-A420 Cup style anemometer

Optional accessories

CAL-LCA ISO Certificate

PCE-AM81

Digital and pocket-sized anemometer capable of several units of measurement

This pocket anemometer, with rotary vane sensor, is ideal for determining wind speed (air speed) indoors as well as for outdoor environments. With this lightweight portable instrument you can test environmental conditions on the spot and quickly take all your measurements. Its lightweight impeller is highly accurate.

- Light weight impeller
- MAX / MIN functions
- Several Units: m/s, km/h, nudos, millas/h, ft/min
- Data Hold function
- LCD (8 mm)
- Handle with safety cord and user's manual
- ISO calibration certificate (optional)



Technical specifications

Wind speed (m/s)	0.4 to 30.0
(ft/min)	80 to 5910
(km/h)	1.4 to 108.0
(mph)	0.9 to 67.0
(knots)	0.8 to 58.3
(Beaufort)	---
Accuracy	±3 %
Resolution	0.1 m/s; 0.1 km/h; 0.1 knots 0.1 mph; 1 ft/min
Auto shut-off	---
Min / Max / Peak / Hold	yes
Indicator	LCD (8 mm)
Impeller	plastic impeller
Operating temperature	0 to +50 °C
Power	9 V battery
Enclosure	plastic
Dimensions	156 x 60 x 33 mm
Weight	160 g



Contents

PCE-AM81 anemometer, safety cord, battery, user's manual

Model No. Description

PCE-AM81 Anemometer

Optional accessories

CAL-LCA ISO Certificate

PCE-007

Anemometer with external vane sensor, memory and software

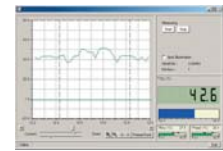
With this anemometer you can measure wind speed and temperature of air. When you have adjusted the transverse area, the anemometer also displays directly the volumetric air flow. The measured values can be directly stored in the device and later transfer data to a computer for further analysis. The external vane sensor (connected to a 1.5 m cable) increases the mobility and flexibility for an exact wind speed measurement.

- Measures and displays air volume
- Memory to store up to 2000 values
- Built-in RS-232 interface
- Software and cable included
- Several units of measurement: m/s, ft/min, knots, km/h, mph
- Dual LCD
- Max & Min Hold
- Auto shut-off
- Calibration certificate (optional)



Technical specifications

Measurement ranges	
Wind speed	0.3 to 45 m/s
Air temperature	0.0 to 45.0 °C
Air volume	0.0 to 999,900 m³/min (it's calculated with average value)
Accuracy	±3 %; ±0.1 of reading ±1 °C it's calculated with wind speed and surface
Resolution	0.01 m/s 0.2 °C 0.001 to 100 (depending on range)
Impeller diameter	50 mm
Interface	RS-232
Memory	2000 values
Software	for Windows 95, 98, 2000 and XP Pro
Operating conditions	pressure: 500 mbar to 2 bar temperature: 0 to +60 °C
Indicator	4 digit LCD
Vane sensor	plastic
Power	9 V battery (PP3) for 50 hours of use
Enclosure	ABS plastic
Dimensions	device: 88 x 168 x 26.2 mm sensor: 60 x 130 x 25.5 mm
Weight	350 g



Contents

PCE-007 anemometer with external impeller, software, interface, battery and user's manual

Model No. Description

PCE-007 PCE-007 vane anemometer

Optional accessories

RS232-USB RS-232 to USB adaptor
CAL-LCA ISO Certificate

PCE-008

Thermo anemometer with external vane sensor, interface and software

The PCE-008 thermo anemometer is appealing for its high quality and low price. This device combines wind speed measurement with air temperature. Introducing the diameter of a channel, it also calculates the current volume. Thanks to its internal data logger you can store up to 16,000 values with date and time stamp (e.g. for measurements over a fix period of time).

- Measures wind speed and temperature
- Measure in several units, m/s, knots, km/h, mph / air flow in m³/h
- Temperature in °C or °F
- Data logger (16,000 values)
- Data-Hold function
- MIN / MAX function
- Average function
- RS-232 interface
- ISO calibration certificate (optional)



Technical specifications

Measurement ranges	
Wind speed	0.2 to 25 m/s
Air temperature	0 to 50 °C
Air volume	0 to 9,900 m ³ /min (it's calculated with the average value)
Resolution	
Wind speed	0.1 m/s
Air temperature	0.1 °C
Air volume	0.001 to 100 m ³ /min
Accuracy	
Air volume	±2 % (of reading); +0.2 m/s
Air temperature	±0.8 °C
Impeller diameter	72 mm
Impeller location	precious stone support
Memory	16,000 values
Memory sequence	adjustable between 2 seconds and 9 hours
Interface	
Interface	RS-232
Indicator	dual LCD for simultaneous measurements of air speed and temperature / 37 x 47 mm
Power	4 AA (Mignon) 1.5 V
Auto power-off	yes, after 20 minutes
Dimensions	200 x 76 x 35 mm
Weight	515 g

Contents

PCE-008 thermo anemometer, carrying case, battery, user's manual, software and RS-232 interface

Model No.	Description
PCE-008	Thermo anemometer

Optional accessories

RS232-USB	RS-232 to USB adaptor
CAL-LCA	ISO Certificate



PCE-424

Professional thermo-anemometer for measurement of air speed

This thermo-anemometer makes accurate air speed and temperature measurements in fan systems. The hot wire heats up with a constant temperature and the current that you must measure cools it down. The combination of hot wire and standard thermistor delivers rapid and precise measurements even at low air velocities.

- Displays air speed and air temperature simultaneously
- Automatic temperature compensation
- Telescopic probe extends up to 1m
- ISO calibration certificate (optional)



Technical specifications

Measurement range	
Speed	0.2 to 20 m/s
Temperature	0 to +50 °C
Accuracy	
Speed	±1 %; ±1 dgt (full range)
Temperature	±0.8 °C
Resolution	0.1 m/s 0.1 °C
Probe lenght	280 to 950 mm
Probe diameter	minimum - maximum from 8 to 12 mm
Operating conditions	
barometric pressure:	500 mbar to 2 bar
temperature:	-10 °C to +50 °C
Indicator	
Indicator	dual LCD
Power	6 1.5 V batteries
Enclosure	ABS plastic
Dimensions	185 x 78 x 38 mm
Weight	355 g

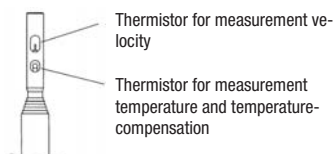
Contents

PCE-424 thermo anemometer, telescopic probe with cable, batteries, carrying case and user's manual

Model No.	Description
PCE-424	Thermo anemometer PCE 424

Optional accessories

CAL-LCA	ISO Certificate
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PCE-009

Thermo-anemometer with memory, RS-232 interface and software

This thermo-anemometer is an economical solution for measuring with high accuracy and for its multiple functions. You can also transfer data to a PC or a portable computer. It can store up to 16,000 in its internal memory.

- Measures air speed and temperature
- Air flow measurement
- Ideal for low air speeds
- Several units of measurement: m/s, km/h, ft/min, knots, miles/h
- Maximum, minimum values are displayed and Data Hold function
- Auto shut-off
- Memory to record up to 16,000 values
- RS-232 interface
- ISO calibration certificate (optional)



Technical specifications

Measurement ranges	
Air speed	0.2 to 20.0 m/s
Air temperature	0.0 to +50.0 °C
Air volume	0 to 36,000 m ³ /min
Resolution	
Air speed	0.1 m/s
Air temperature	0.1 °C
Air volume	0.001 to 1 m ³ /min
Accuracy	
Air speed	±1 % (of reading)
Air temperature	±0.8 °C
Thermocouple	removeable telescopic hot wire normal lenght 280 mm extended lenght 940 mm maximum diameter 12 mm minimum diameter (heat) 8 mm
Memory	16,000 values
Memory space	adjustable between 2 sec. and 9 hours
Interface	
Interface	RS-232
Indicator	large LCD (58 x 34 mm)
Power	4 AA batteries 1.5 V
Auto shut-off	after 5 min
Dimensions	200 x 76 x 38 mm
Weight	515 g

Contents

PCE-009 thermo anemometer with logger and thermocouple with 1.5m cable, RS-232 interface, software, 4 batteries, carrying case and user's manual

Model No.	Description
PCE-009	Thermo anemometer PCE-009

Optional accessories

RS232-USB	RS-232 to USB adaptor
CAL-LCA	ISO Certificate

