

Thermal Anemometer PCE-009



Accurate thermal anemometer to measure air temperature and velocity with calculation of volume of air current and RS-232 interface for data transfer to a computer, software and cable is included

This thermal anemometer has a good relation between price and quality and it combines accuracy and versatility with the ability to transfer data directly to a computer. This air thermal anemometer forms a part of a professional's basic equipment to regulate and test ventilation systems. This thermal anemometer is also used in research and development projects within institutions. Its fine 8 mm / .3 in point makes it possible to use in areas where there is limited space to measure, such as cooling systems. When a surface area is input into the thermal anemometer it will calculate the volume of air current in m³/min. In this way, the capacity of a ventilation can be controlled and it can be used for air conditioning and refrigeration systems. It should be taken into account that when measuring air flow, various measurements should be taken and the average used to represent the air flow reading.

- Measures air velocity and temperature
- ▶ Calculates volume of air current as well as average volume of air current
- ▶ Can be used for low air velocity
- ▶ Different units of measurement: m/s, km/h, ft/min, knots, miles/h
- ▶ Large LCD
- ▶ Easy to use
- ▶ Shows minimum and maximum value
- ▶ Save function for minimum and maximum values
- ▶ Auto shut-off function to protect battery life
- ▶ Has an RS-232 interface for data transfers to a computer
- ▶ Comes with a telescopic sensor, batteries, carrying case, software, RS-232 cable and user's manual

Specifications

Measurement range with
corresponding unit:

- m/s 0.2 ... 20.0
- °C / °F 0.0 ... 50.0 / 32 ... 122°F (sensor)

Calculation of volume of air 0 ... 36,000

current:

- m³/min (CCM)

Resolution

- Air velocity 0.1m/s (for remaining units, up to ft/min = 1.0)
- Air temperature 0.1°C / 0.18°F
- Volume of air current 0.001 to 1m³/min (depending on reading)

(CCM)

Accuracy

- Air velocity ±1% (of measurement range) or ±5%
of the corresponding value
- Air temperature ±0.8°C / 1.4°F
- Volume of air current Calculated value

(CCM)

Measuring quote

From 2 sec. to 9 hours

Internal memory

16.000 values

- Telescopic thermistor
- Hot wire sensor
- Contracted length 280 mm / 11 in
- Extended length 940 mm / 37 in
- Maximum diameter 12 mm / .5 in
- Minimum diameter 8 mm / .3 in (at the leading end)

Thermal sensor

Interface

RS-232

- Included, compatible with Windows 95, 98, 2000,

Software / RS-232 cable

XP, for data transfer

- Data can also be exported to MS Excel

Display

Large 58 x 34 mm / 2.3 x 1.4 in LCD

Operating conditions

Device: 0°C ... 40°C / 32 ... 104°F <80% r.h.
Thermal sensor: 0°C ... 50°C / 32 ... 122°F <80% r.h.

Power

4 batteries (1.5V) (or by way of an optional mains
adaptor of 9V)

Auto shut-off

Yes, 5 minutes to protect battery power

Device: 203 x 76 x 38 mm / 8 x 3 x 1.5 in

Dimensions

Thermal sensor: 8 mm / .3 in diameter x 940 mm / 37
in maximum extended length (only 280 mm / 11 in
when contracted)

Enclosure

ABS plastic

Weight

515 g / 1.1 lbs

Subject to change

