

Multifunction Air Velocity Meter with Capture Hoods

PCE-VA 20-SET



PCE-VA 20-SET Multifunction Air Velocity Meter with Capture Hoods **Combination anemometer-hygrometer-thermometer for HVAC system balancing**

PCE-VA 20-SET is a multifunction air velocity meter with capture hoods for assessing and balancing heating, ventilation and air conditioning or cooling (HVAC) systems. In addition to measuring air flow velocity (i.e., wind speed), this multipurpose handheld device measures volume flow, relative humidity (RH), air temperature, dew point temperature and wet-bulb temperature. This combination anemometer-hygrometer-thermometer features a 10 cm / 3.9" Ø fan impeller, easy-to-read backlit LCD, and functions such as display hold, average value, maximum value, minimum value, battery-saving automatic power off, low-battery indicator, and metric or imperial unit selection.

- ▶ Measures air flow velocity, volume flow, relative humidity, air temperature, dew point temperature and wet-bulb temperature
- ▶ Air flow velocity range: 0.2 ... 30 m/s (39.4 ... 5905.5 fpm)
- ▶ Accuracy: $\pm(1.5\%$ of measured value + 0.3 m/s) when less than 20 m/s, $\pm(3\%$ of measured value + 0.3 m/s) when more than 20 m/s
- ▶ Resolution: 0.1
- ▶ Includes 2 x capture hoods (1 x round 210 mm / 8.3 in Ø, 1 x square 346 x 346 mm / 13.6 x 13.6 in)
- ▶ 10 cm / 3.9 in Ø fan impeller
- ▶ Easy-to-read backlit LCD
- ▶ Display hold, average value, maximum value, minimum value, battery-saving automatic power off, low-battery indicator, and metric or imperial unit selection functions

Subject to change

Specifications

Technical Specification

Air flow velocity measuring range 0.2 ... 30 m/s (39.4 ... 5905.5 fpm)

Air flow velocity accuracy
<20 m/s: $\pm(1.5\% \text{ of rdg.} + 0.3 \text{ m/s})$
>20 m/s: $\pm(3\% \text{ of rdg.} + 0.3 \text{ m/s})$

Air temperature measuring range -20 ... 60 °C / -4 ... 140 °F

Air temperature accuracy $\pm 0.6 \text{ °C}$

Air temperature resolution 0.1 °C / °F

Humidity measuring range 0.1 ... 99.9 % r.H.

Humidity accuracy
 $\pm 3 \text{ % r.H. (at } 25 \text{ °C / } 77 \text{ °F and } 10\ldots 90 \text{ % r.H.)}$
else: $\pm 5 \text{ % r.H.}$

Humidity resolution 0.1 % r.H.

Temperature response time 60 seconds

Humidity response time 60 seconds

LCD update 1 x per second

Wet bulb temperature display -20 ... +59.9 °C / -4 ... 139.8°F

Dew point temperature display -5 ... +59.9 °C / 23 ... 139.8°F

Volume flow display 0 ... 99999 m³/min

Volume flow resolution
0.1 m³/min (0...9999,9 m³/min)
1 m³/min (10000...99999 m³/min)

Automatic shutdown after 20 minutes of inactivity

LCD size 32.5 x 54 mm / 1.28 x 2.13" (H x W)

Power supply 4 x 1.5 V AAA batteries

Operating conditions 0 ... +50 °C / 32 ... 89.6°F, <80 % r.H.

Storage conditions -10 ... +50 °C / 14 ... 89.6°F, <90 % r.H.

Dimensions 269 x 106 x 51 mm / 10.6 x 4.1 x 2.0"

Weight ca. 200 g / 7 oz

Subject to change

