

# Climate Meter PCE-EM 888



## PCE-EM 888 Climate Meter

**Portable handheld multifunctional digital device measures wind speed, volumetric air flow, temperature, relative humidity, light and barometric pressure**

PCE-EM 888 is a portable handheld climate meter ideal for monitoring environmental conditions and the performance of heating, ventilation and air conditioning (HVAC) systems. This multifunctional digital device is used to measure wind speed, volumetric air flow, temperature, relative humidity, light and barometric pressure.

Due to its compact and lightweight design, this climate meter is a true pocket weather station that can be used almost anywhere. With just the touch of a button, measurements are displayed on the easy-to-read 8 mm (0.32") LCD screen with backlight. The device also features MIN/MAX functionality. Thus, this user-friendly climate meter has many practical applications for monitoring weather conditions outdoors at construction job sites, farms, marinas and more. In addition, this multi-purpose meter can be used for indoor air quality (IAQ) monitoring.

A high-precision type K thermocouple sensor enables fast temperature measurements. The impeller ensures accurate wind speed measurements. While measuring the wind speed, the device always simultaneously measures the temperature of the air flow. The climate meter also has a relative humidity sensor. The monolithic silicone-based pressure sensor allows for measurement of the barometric or atmospheric pressure. A light sensor completes the range of measuring capabilities for this multi-use tool.

- ▶ High accuracy
- ▶ MIN/MAX function
- ▶ Compact, portable design
- ▶ Includes type K thermocouple sensor Tmax 200°C or 392°F
- ▶ Easy-to-read 8 mm / 0.32 in LCD screen with backlight

# Specifications

## Wind speed

Measuring range	80 ... 5910 ft / min 0.4 ... 30 m / s 1.4 ... 108 km / h 0.9 ... 67 mph 0.8 ... 58.9 knots
Resolution	1 ft / min 0.1 m / s 0.1 km / h 0.1 mph 0.1 knot
Accuracy	< 20 m / s: $\pm 3\%$ of range > 20 m / s: $\pm 4\%$ of range

## Volumetric air flow

Measuring range	Max. 54000 CMM Max. 1908400 CFM
Resolution	0.0001 ... 1 CMM 0.001 ... 100 CFM
Accuracy	-

## Relative humidity

Measuring range	10 ... 95% RH
Resolution	0.1% RH
Accuracy	< 70% RH $\pm 4\%$ of range > 70% RH $\pm (4\%$ of range + 1.2% RH)

## Air temperature

Measuring range	0 ... 50°C / 32 ... 122°F
Resolution	0.1°C / 0.18°F
Accuracy	$\pm 1.2\text{°C}$ / $\pm 2.2\text{°F}$

## Light

Measuring range	0 ... 2000 lux 1800 ... 20000 lux 0 ... 204 ft-cd 170 ... 1860 ft-cd
Resolution	1 lux 10 lux 0.1 ft cd 1 ft cd
Accuracy	$\pm 5\%$ of range $\pm 8$ digits

## Type K thermocouple sensor

Measuring range	-100 ... 1300°C / -148 ... 2372°F
Resolution	0.1°C / 0.18°F
Accuracy	$\pm (1\%$ of range + 1°C / 1.8°F) $\pm (1\%$ of range + 2°F / 3.6°F)

# More information

Manual



More product info



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**Barometric****pressure**

Measuring range	10 ... 999.9 hPa 1000 ... 1100 hPa 7.5 ... 825 mmHg 0.29 ... 32.48 inHg
Resolution	0.1 hPa 1 hPa 0.1 mmHg 0.01 inHg
Accuracy	± 1.5 hPa ± 2 hPa ± 1.2 mmHg 0.05 inHg

**General****specifications**

Display	8 mm / 0.32 in LCD
Measurement functions	Air speed / velocity Volumetric air flow Relative humidity Air temperature Light Atmospheric / barometric pressure Thermocouple type K
Operating conditions	0 ... 50°C (32 ... 122°F)/ Max. 80% RH
Power supply	1 x 9V battery
Current consumption	Approx. 6.2-mA
Weight	Approx. 160 g / < 1 lb
Dimensions	156 x 60 x 33 mm / 6.2 x 2.4 x 1.3 in

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