Technical Light Meter PCE-EM 888

PCE-EM 888 Multifunction Light 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 light 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 multifunction light meter or 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") LCD screen with backlight

Technical Specification:

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: ± 3% of range
	> 20 m / s: ± 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 ± 4% of range
	> 70% RH ± (4% of range + 1.2% RH)

Air temperature

Measuring range	0 … 50 ° C / 32 … 122 ° F
Resolution	0.1 ° C / 0.1 ° F
Accuracy	± 1.2 ° C / ± 2.5 ° 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	± 5% of range ± 8 digits

Type K thermocouple sensor

Measuring range	-100 … 1300 ° C / -148 … 2372 ° F
Resolution	0.1 ° C / 0.1 ° F
Accuracy	± (1% of range + 1 ° C)
	± (1% of range + 2 ° F)

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") 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 9 V battery
Current consumption	Approx. 6.2 mA
Weight	Approx. 160 g / 0.36 lb
Dimensions	156 x 60 x 33 mm / 6.2 x 2.4 x 1.3"

Delivery Contents:

1 x PCE-EM 888 multifunction light meter

1 x type K thermocouple sensor

1 x 9 V battery

1 x user manual