



Climate Meter PCE-EM 883



Climate meter PCE-EM 883

Multifunctional environmental measuring instrument with extensive accessories /
Measurement of sound, light, wind speed, temperature and humidity / Data Hold, MIN and
Max function / Backlight

Our multifunctional climate meter PCE-EM 883 combines all important features for measuring the ambient conditions in one device. The climate meter is designed as fast as possible to determine as many parameters as possible. Due to the large number of external sensors that the climate meter brings with it, such fast and precise measurements are possible. Our multifunctional climate meter is able to detect not only the sound level but also the temperature, the light, the wind speed and the humidity of the environment.

The compact meter allows one-handed operation as it has only eight buttons that are easily accessible. Because our climate meter is a non-stationary device, non-stationary measurements can be made at various locations. The backlight supports this field of application, as it is possible to use the device in dark places, without limitation of readability.

- **Measurement of all relevant environmental parameters**
- **High measurement accuracy**
- **One-hand operation**
- **Backlit**
- **MIN, MAX, HOLD function**
- **Automatic shutdown**

Specifications:

Wind speed

Measuring range	0.5 ... 30 m / s
Accuracy	± 10%
Unit of measurement	m / s, km / h, ft / min, knots, mph

Temperature

Measuring range	-40 ... 70°C / -40 ... 158°F
Accuracy	± 2°C / 3.6°F
Unit of measurement	°C, °F
Resolution	0.1°C / 0.18°F

Humidity

Measuring range	10 ... 95% rh
Accuracy	± 5% rh

Resolution 0.1% RH

Sound

Measuring range 35 ... 130 dB
Accuracy ± 2 dB
Resolution 0.1 dB
Display 4 digits
Frequency range 31.5 Hz ... 8 kHz
Frequency dBA
Microphone Electric condenser microphone
Applied standard IEC61672-1 CLASS2

Light

Measuring range 0 ... 200000 lx; 0 ... 20000 Fc
Spectral CIE photo-optic (CIE sensitivity of a human eye)
Spectral accuracy CIE V_{λ} function $f_1 \leq 6\%$
Cosine behavior $f_2 \leq 2\%$
Accuracy $\pm 15\%$
Measuring sensor Silicon photodiode with filter

General specifications

Data update 1 x per second
Measurement functions Maximum value (MAX)
Minimum value (MIN)
Data Hold function (Hold)
Automatic shutdown After about 15 minutes of inactivity
Power supply 1 x 9V block battery
Environmental conditions -20 ... 60°C / -4 ... 140°F, 10 ... 90% rh
Storage conditions -20 ... 60°C / -4 ... 140°F, 10 ... 90% rh
Dimensions 252 x 66 x 33 mm / 9.9 x 2.6 x 1.3 in

Weight

568 g / 1.3 lbs

Delivery Scope

1 x Climate meter PCE-EM 883

1 x Sound sensor

1 x Wind speed sensor

1 x Light sensor

1 x Temperature sensor

1 x Humidity sensor

1 x Wind noise suppressor

1 x 9V block battery