Hygrometer PCE-EM 883

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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 hygrometer PCE-EM 883 combines all important features for measuring the ambient conditions in one device. The hygrometer is designed as fast as possible to determine as many parameters as possible. Due to the large number of external sensors that the hygrometer brings with it, such fast and precise measurements are possible. Our multifunctional hygrometer 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 hygrometer 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

Subject to change

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 Vλ function f1 '≤6%
Cosine behavior	f2 '≤ 2%
Accuracy	± 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