

Outdoor Decibel Meter Kit PCE-430-EKIT



Professional outdoor decibel meter PCE-430 (class 1) incl. outdoor noise level meter kit

Handheld noise meter and real-time frequency analyzer / Octave bandfilter / Filter upgradeable / Fast, Slow and Pulse Evaluation / Data logger /USB

The Class 1 outdoor decibel meter PCE-430-EKIT meets all requirements for noise measurement and frequency analysis. This integrated precision pulse decibel meter follows all valid standards and guidelines (Klasse 1 EN/IEC 61672, ANSI S1.4-1983, ANSI S1.43-1997 EN/IEC 61260, etc.) The outdoor decibel meter PCE-430 has a very large illuminated display. The decibel meter display adjusts the sound pressure level numerically and graphically in real time. The professional decibel meter has an integrated data logger. The measurement data is stored on a micro SD card.

This card can be read directly in the PC. Likewise, the outdoor decibel meter can be connected to the PC via USB and the memory can be read out. The post-processing software from the decibel meter allows convenient measurement data analysis. The typical applications for this instrument are the measurement of workplace noise, compliance, environmental noise detection, selection of hearing protector selection, selection of appropriate noise abatement measures and noise exposure estimation.

PCE-4xx-EKIT

An additional kit for outdoor sound measurement PCE-4xx-EKIT can be combined with the decibel meters PCE-428, 430 or PCE-432. This kit makes it possible to measure the outdoor noise with a noise meter over a long period of time. The environmental noise monitoring system consists of a waterproof Peli carrying case with rollers. A charger and two additional lead gel batteries are installed in this case, which allows an operation of the sound monitor for up to 10 days. During the outdoor sound measurement, the case may remain closed. Due to the external connections for the microphone and the power supply all electronic components are protected from water.

The delivery scope of the outdoor sound monitor includes rain and wind protection as well as a wire mesh for the microphone. Also, a tripod is available with which the microphone can be placed outdoors. Also, the charger in the measuring kit PCE-4xx-EKIT is waterproof. So, the charger may also remain outdoors. The outdoor noise meter can be used, for example, for the sound measurement of road noise, aircraft and train noise, event noise, etc. The weather does not matter, hail, snow and rain are no problem for the kit for outdoor noise. If the PCE-432 noise meter is combined with this measuring kit, it is even possible that the exact location of the sound level metering around the outside area is assigned via the GPS receiver.

The pulse function of the PCE-430 allows you to record short-term sound events. Thanks to the integrated octave band function even the smallest differences in the frequency band can be detected. The frequency filter can be optionally upgraded. The measuring range of this professional sound level meter ranges from 22 ... 136 db (A) at a frequency of 3 Hz ... 20 kHz.

Subject to change

- ▶ 1/1 octave band included
- ▶ 1/3 octave band optional
- ▶ Accuracy class 1
- ▶ A, B, C & Z frequency rating
- ▶ Fast, Slow, Pulse and Peak time weighting
- ▶ Statistics function
- ▶ Display of the sound profile as a graph
- ▶ 3 measuring profiles adjustable
- ▶ Low inherent noise
- ▶ ICCP microphone 40 mV /PA
- ▶ Alarm level adjustable

Subject to change



Specifications

Measuring range	22 ... 136 dbA
Accuracy	Class 1
Frequency range	3 Hz ... 20 kHz
Standards	GB/T3785.1-2010 GB/T3785.2-2010 IEC60651:1979 IEC60804:2000 IEC61672-1:2013 ANSI S1.4-1983 ANSI S1.43-1997
Frequency analysis	Octave band filter: 8 Hz ... 16 kHz 1/3 Octave band filter: 6.3 Hz ... 20 kHz
Microphone	1/2" measurement microphone class 1 Sensitivity: 40 mV/PA Frequency range: 3 Hz ... 20 kHz Connection: TNC Power supply: ICCP Standard
Data-logging interval	1 s ... 24 h (adjustable)
Measuring functions	LXY(SPL), LXeq, LXYSD, LXSEL, LXE, LXYmax, LXYmin, LXPeak, LXN. X = Frequency weighting: A, B, C, Z; Y = Time weighting: F, S, I; N = Statistics in %: 1 ... 99 %
24 hour measurement	Automatic measurement with data storage
Frequency weightings	A, B, C, Z
Time weightings	Fast (F), Slow (S), Pulse(I), Peak
Inherent noise	Microphone: 19 db(A), 25 db(C), 31 db(Z) Electronics: 13 db(A), 17 db(C), 24 db(Z)
AD converter	24 bit
Sample rate	Standard: 48 kHz LN mode: 20 ms
Measuring display	Numerical Bar graph Graphical
Display	160 x 160 pixel LCD with backlight
Memory	4 GB Micro SD card

Subject to change



Interface	USB (Memory readable via software or directly as mass storage) RS232
Voltage output	AC 5V RMS DC 10 mV/db
Alarm	Adjustable
Power supply	4 x 1.5 V AA batteries 12 V / 1 A power plug 5 V / 1 A USB
Operating time battery mode	min. 10 h
Dimensions	70 x 300 x 36 mm / 2.76 x 11.81 x 1.42" (W x H x D)
Weight	approx. 620 g / 1.4 lbs incl. batteries
Transport case	PELI 1510 with rollers with grid foam
Protection	IP65

Outdoor Noise Level MeterKit

Connections on the suitcase	Microphone: TNC 12 V charging voltage: XLR 110 V / 230 V charging voltage: PowerCon TRU
Charger	Victron Blue Smart 12 V / 4 A IP65
Internal batteries	2 x 12 V / 12 Ah lead gel
Battery running time	min. 10 days
Power supply	with charger EU Version: 180 ... 265 V AC with charger US Version: 100 ... 130 V AC battery operation: 2 x 12 V / 12 Ah
Cable length	Microphone cable: 2 m / 6 ft 6" with TNC connector Power supply: 2 m / 6 ft 6" with PowerCon TRU
Dimensions	56 x 35 x 23 cm / 2.2 x 1.3 x 0.9"
Weight	ca. 14 kg / 30 lb 13 oz with batteries ca. 8 kg / 17 lb 10 oz without batteries

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