

Class 1 Decibel Meter PCE-432 with Calibrator



Decibel meter PCE-432 with GPS (class 1) incl. Class 1 calibrator

Handheld sound level meter / Octave band filter / A, B, C and Z evaluation filter can be upgraded / Fast, slow and impulse evaluation / Data logger / USB

The class 1 sound level meter meets all the requirements for noise measurement and frequency analysis. In addition to the sound measurement function, the noise meter is equipped with a GPS receiver. The GPS function allows the user to assign the measured values to an exact position.

This integrating precision pulse sound level meter complies with all applicable standards and guidelines (Class 1 EN / IEC 61672, ANSI S1.4-1983, ANSI S1.43-1997 EN / IEC61260, etc.). The sound level meter has a very large illuminated display. The display of the sound level meter shows the sound pressure level numerically and graphically in real time. The professional sound level meter has an integrated data logger. The measurement data are saved on a micro SD card. This card can be read out directly in the PC.

The sound level meter can also be connected to the PC via USB and the memory can be read out. The post-processing software of the sound level meter allows convenient measurement data analysis. The typical areas of application for this device are the measurement of workplace noise, compliance with regulations, determination of environmental noise, selection of hearing protection Protector Selection, selection of suitable noise control measures and estimation of noise exposure.

The impulse function of the noise measuring device enables short-term sound events to be recorded. Thanks to the integrated octave band function, even the slightest differences in the frequency band can be determined here. The frequency filter can be optionally upgraded. The measuring range of this professional sound level meter extends from 22 ... 136 db (A) at a frequency of 3 Hz ... 20 kHz.

- ▶ **1/1 octave band included**
- ▶ 1/3 octave band optional
- ▶ Accuracy class 1
- ▶ GPS receiver integrated
- ▶ A, B, C & Z frequency weighting
- ▶ Fast, Slow, Impulse and Peak time weighting
- ▶ Statistics function
- ▶ Display of the sound course as a graph
- ▶ 3 measurement profiles adjustable
- ▶ Low inherent noise
- ▶ ICCP microphone 40 mV / PA
- ▶ Adjustable alarm level
- ▶ Incl. **class 1** sound **calibrator**

Subject to change

Specifications

Measuring range	22 ... 136 db(A)
Accuracy	Class 1
Frequency range	3 Hz ... 20 kHz
Standards	GB/T 3785.1-2010 GB/T 3785.2-2010 IEC 60651:1979 IEC 60804:2000 IEC 61672-1:2013 ANSI S1.4-1983 ANSI S1.43-1997
Frequency analysis	1/1 Octave band filter: 8 Hz ... 16 kHz 1/3 Octave band filter: 6.3 Hz ... 20 kHz
Microphone	1/2" 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, LXYS, LXSEL, LXE, LXYmax, LXYmin, LXPeak, LXN X = Frequency weighting: A, B, C, Z Y = Time weighting: F, S, I N = Statistics in %: 1 ... 99 %
Frequency weightings	A, B, C, Z
Time weightings	Fast (F) 125ms, Slow (S) 1 sec, Impulse (I) 35 ms
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
Interface	USB (Memory readable via software or directly as mass storage) RS-232

More information

Manual



Manual P2



Manual P3



More product info



Similar products



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Voltage output	AC 5V RMS DC 10 mV/db
Alarm	Adjustable
GPS	Yes, GPS receiver for location determination
Power supply	4 x 1.5 V AA Batteries 12 V / 1 A Power plug 5 V / 1 A USB
Battery life	Min. 10 h continuous use
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

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