

CLASS 2 DATA LOGGING SOUND LEVEL METER

PCE-428



- » Accuracy class 2
- » A, B, C and Z frequency weightings
- » Fast, slow and impulse time weightings
- » 1/1 octave band filter (optional 1/3 octave band filter upgrade)
- » Adjustable data-recording interval from 1 s ... 24 h
- » Real-time numerical and graphical LCD display
- » Adjustable alarm

PCE-428 is a class 2 data-logging sound level meter that meets IEC 60651:1979, IEC 60804:2000, IEC 61672-1:2013, ANSI S1.4-1983 and ANSI S1.43-1997 requirements. This portable high-accuracy sound level meter has a large easy-to-read illuminated LCD screen that displays the sound pressure level (SPL) numerically and graphically in real time. Thanks to octave band filtering, even the slightest difference in frequency is detected.

The handheld meter also functions as a data logger, recording measurements at an adjustable interval from 1 s ... 24 h and storing the recorded measurement data to a micro SD card memory. The SD card can be removed from the meter and inserted into the SD card reader of a PC. Alternatively, the decibel meter can be connected directly to a PC via USB. The provided PC-compatible software allows for quick and easy data analysis.

This device measures from 25 ... 136 db(A) at a frequency of 20 Hz ... 12.5 kHz. The meter features A, B, C and Z frequency weightings as well as fast, slow and impulse time weightings. The PCE-428 decibel meter is commonly used by professionals to ensure compliance with environmental noise regulations and workplace noise permissible exposure limits.

Specification

Sound level	
Measuring range	25 ... 136 dBA
Resolution	0,1 dBA

Accuracy	Class 2
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General technical data	
Analogue output	DC 10 mV/db, AC 5V RMS
Measuring functions	LXN, LXPeak, LXymin, LXymax, LXE, LXSEL, LXySD, LXeq, LXy(SPL)
Measuring functions (additional information)	X = frequency weighting: A, B, C, Z; Y = time weighting: F, S, I; N = statistics in %: 1 ... 99 % Frequency analysis: standard 1/1 octave filter 20 Hz ... 8 kHz optional 1/3 octave filter 20 Hz ... 12.5 kHz
Connections	1/2 inch microphone
Time weighting	Pulse (35ms), slow (1 s), fast (125 ms), peak
Frequency weighting	A, B, C, Z
Frequency	20 ... 12500 Hz
Display type	LCD with backlight
Display refresh rate	1 x per second
Storage medium	Micro SD card
Storage capacity	4 GB
Storage interval from	0,1 s
Storage interval to	24 h
Microphone type	Class 2 measuring microphone
Interface	RS232, Mini-USB
Standard(s)	GB/T3785.2-2010, GB/T 3785.1-2010, ANSI S1.4-1983, ANSI S1.43-1997, IEC 60804:2000, IEC 60651:1979, IEC 61672-1:2013
Operating time	10 h
Automatic power-off	30 min
Tripod thread	1/4 inch
Sensitivity	40 mV/PA
Menu language	English, Spanish, German, Chinese, French, Indonesian, Portuguese
Protection class (device)	IP20
Power supply	100 ... 240V AC 50/60 Hz Netzteil 12V / 1 A Mini-USB 5V / 1 A
Connector type	Device-europlug
(Rechargeable) battery	4 x 1,5 V AA battery , Alkali-manganese
Capacity	3000 mAh
Performance	4,5 Wh
Operating conditions	-10 ... 50 °C , 20 ... 90 % RH
Storage conditions	-10 ... 50 °C , 20 ... 90 % RH
Dimensions (L x W x H)	200 x 80 x 36 mm
Weight	245 g