

CLASS 1 SOUND LEVEL METER

PCE-430



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

Class 1 Sound Level Meter - PCE-430

PCE-430 is a class 1 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 class 1 sound level 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 22 ... 136 db(A) at a frequency of 3 Hz ... 20 kHz. The class 1 sound level meter features A, B, C and Z frequency weightings as well as fast, slow and impulse time weightings. This 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	22 ... 136 dBA
Resolution	0,1 dBA

Accuracy	Class 1
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General technical data	
Analogue output	AC 5V RMS, DC 10 mV/db
Measuring functions	LXY(SPL), LXeq, LXYSD, LXSEL, LXE, LXYmax, LXYmin, LXPeak, LXN
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 8 Hz ... 16 kHz Optional 1/3 octave filter 6.3 Hz ... 20 kHz
Connections	1/2 inch microphone
Time weighting	fast (125 ms), slow (1 s), Pulse (35ms), peak
Frequency weighting	A, B, C, Z
Frequency	10 ... 20000 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	Measurement microphone class 1
Interface	Mini-USB, RS232
Standard(s)	IEC 61672-1:2013, IEC 60651:1979, IEC 60804:2000, ANSI S1.43-1997, ANSI S1.4-1983, GB/T 3785.1-2010, GB/T3785.2-2010
Operating time	10 h
Automatic power-off	30 min
Tripod thread	1/4 inch
Sensitivity	40 mV/PA
Menu language	German, English, Chinese, Portuguese, Spanish, French
Protection class (device)	IP20
Power supply	100 ... 240V AC 50/60 Hz Plug-in power supply 12V / 1 A 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	246 g