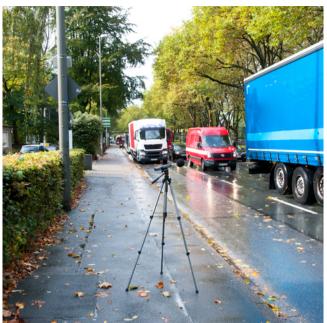


## Sound Level Data Logger PCE-430







PCE-430 Sound Level Data Logger
Portable high-accuracy decibel meter with 1/1 octave band filter (optional 1/3 octave band filter upgrade)

PCE-430 is a class 1 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 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 22 ... 136 db(A) at a frequency of 3 Hz ... 20 kHz. The meter features A, B, C and Z frequency weightings as well as fast, slow and impulse time weightings. The PCE-430 decibel meter is commonly used by professionals to ensure compliance with environmental noise regulations and workplace noise permissible exposure limits. It is also ideal for airport and air force base noise monitoring programs.

- Accuracy class 1
- ▶ 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 see accessories tab)
- ▶ Adjustable data-recording interval from 1 s ... 24 h
- ▶ Real-time numerical and graphical LCD display
- ► Adjustable alarm

## **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 1

1 s ... 24 h (adjustable)

interval

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 %

Frequency

A, B, C, Z

weightings

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

AD 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

## More information

Manual

Manual P2

More product info



Similar products

Subject to change

USB (Memory readable via software or directly as mass Interface

> storage) RS-232

Voltage output AC 5V RMS

DC 10 mV/db

Adjustable Alarm

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  $70 \times 300 \times 36 \text{ mm} / 2.76 \times 11.81 \times 1.42$ " (W x H x D)

Weight Approx. 620 g / 1.4 lbs incl. batteries