

# Sound Level Meters

## PCE-355

Personal noise dosimeter with data logger, interface and software

The PCE-355 personal noise dosimeter is used to measure the noise level accumulated in the workplace, in the industrial sector, etc. The most important features of this device are its external microphone that you can hang on your neck using a clip, its data logging to store the measurements and its software. It can be connected to a PC to display the dose in %, assess the data, establish the quota and exposure time. The device is pocket-sized, so you can put it in your coat pocket and, for example, you will be able to measure and store the acoustic values that occurred during your working day (8 hours).

- Lightweight and easy to use
- Measurement range of 70 to 140 dB (A)
- Noise dose range of 0 to 1999 %
- Data logger, interface and software
- A frequency weighting
- Fast and slow time weighting
- 4 digit LCD
- Wind shield
- ISO calibration certificate (optional)



### Technical specifications

Measurement range	sound dose: 0 to 1999 % sound range: 70 to 140 dB(A)
Resolution	0.1 dB
Accuracy	±1.5 dB (for 94 dB and 1 kHz)
Frequency weighting	A
Criterion levels	80, 84, 85, 90 dB
Threshold level	70 to 90 dB of reading; 1 dB
Time weighting	fast / slow
Microphone	1/2 inch Electret condenser
Operating conditions	0 to +50 °C, <80 % r.h.
Power	4 AAA batteries
Battery life	approx. 38 hours
Dimensions	106 x 60 x 34 mm
Weight	350 g
Applicable standards	IEC 651 type II, ANSI S1.25-1991

### Contents

Noise dosimeter, external microphone with 1.5 m cable, interface, software in English, wind shield, carrying case and user's manual

Model No.	Description
PCE-355	Noise dosimeter

### Optional accessories

PCE-SC41	Sound calibrator (94 dB)
CAL-355	ISO Certificate
RS232-USB	RS-232 to USB adaptor

## PCE-999

Industrial sound level meter for first time users

The PCE-999 sound level meter has some characteristics that only the most expensive devices possess. It measures noise, assess the noise in the workplace and controls measurements for gastronomy, traffic, environment, works, etc. You can purchase the optional ISO calibration certificate, as for the PCE-318, PCE-322A and PCE-353 LEQ models (with a laboratory calibration and a certificate for your company) and a sound calibrator (class II) to recalibrate.

- 2 measurements ranges: Low & High
- A and C frequency weighting
- Frequency range 31.5 Hz up to 8 kHz
- Fast and slow time weighting
- Min / Max Hold functions
- 4 digit LCD
- Auto shut-off feature
- 1/2" Electret microphone
- ISO calibration certificate (optional)



Precision sound calibrator



### Technical specifications

Measurement range	30 to 130 dB in 2 ranges
Resolution	0.1 dB
Accuracy	±1.5 dB
Updating	1 x /s
Frequency	31.5 Hz to 8 kHz
MIN / MAX functions	- / yes
LEQ	-
Memory	-
Outputs	-
Software	-
Frequency weighting	A & C
Indicator	4 digit LCD
Operating conditions	0 to +40 °C, <90 % r.h.
Power	9 V battery
Dimensions	210 x 55 x 32 mm
Weight	230 g
Applicable standards	IEC 651 type II, EN60651

### Contents

PCE-999, carrying case, wind shield, battery and user's manual

Model No.	Description
PCE-999	Sound Level Meter

### Optional accessories

PCE-SC41	Sound calibrator (94 dB)
CAL-SL	ISO Certificate

## PCE-318

Sound level meter with a measurement range from 26dB(A) and analogue output

The PCE-318 sound level meter has a measurement range from 26 to 130dB. This sound level meter is best suited to measure very low noises, such as those generated by computers fans, acoustic protection in machine housings, etc. It has an analogue output that makes it possible to record the values in external places. If you want, you can purchase the ISO calibration certificate and a sound calibrator of (class II) for in-house recalibrations when required.

- Measurement range from 26dB(A)
- Datalogging function records up to 99 records (manual)
- Analogue output: AC & DC
- 6 adjustable measurement ranges
- A and C frequency weighting
- Frequency range from 31.5 Hz to 8 kHz
- Fast and slow time weighting
- Min & Max Hold functions
- LCD with analogue bargraph
- ISO calibration certificate (optional)



Precision sound calibrator



### Technical specifications

Measurement range	26 to 130 dB in 6 ranges
Resolution	0.1 dB
Accuracy	±1.5 dB
Updating	1 x /s
Frequency	31.5 Hz to 8 kHz
MIN / MAX functions	yes / yes
LEQ	-
Memory	99 (with keyboard)
Outputs	analogue AC & DC
Software	-
Frequency weighting	A & C
Indicator	4 digit LCD with analogue bargraph
Operating conditions	-10 to +50 °C, <90 % r.h.
Power	9 V battery
Dimensions	264 x 68 x 27 mm
Weight	260 g
Applicable standards	IEC 651 type II, EN60651

### Contents

PCE-318, carrying case, wind shield, adjustment screwdriver, 3.5 mm pin (for analogue output), battery and user's manual

Model No.	Description
PCE-318	Sound Level Meter

### Optional accessories

PCE-SC41	Sound calibrator (94 dB)
CAL-SL	ISO Certificate
MIC	Microphone extension cable (5 m)
STAT	Tripod mount
NET	AC adaptor (300 mA)

## PCE-322 A

Sound level meter with data logger and software (for long period monitoring)

This sound level meter is best suitable to measure in the industrial, sanitary and security sectors, as well as check environmental noise. The built-in memory allows you store up to 32,000 readings. You can transfer data to a PC through the interface and assess it with the Windows data logging software (in English) which offers you a visualization of data in tables and bar graph format.

- Datalogging function records up to 32,000 readings
- USB Interface and software to transfer data to a PC
- Min / Max functions
- Bargraph indication (2 dB)
- A and C frequency weighting
- Frequency range from 31.5 Hz to 8 kHz
- Impulse, fast and slow time weighting
- 1/2" Electret microphone
- ISO calibration certificate (optional)



## PCE-353 LEQ

Sound level meter with LEQ, memory and software

Thanks to the possibility to measure the level of continuous acoustic pressure (LEQ), this sound level meter is suitable for making checks in workplaces, of machines, etc. It has an analogue output that makes it possible to record the values in external places (p.e. for CE certification according to the guidelines for machines). Stored data can be easily transferred to a PC via the RS-232 interface and analyzed using the software (which is in English) and a cable provided.

- According to 89/ 393/ EWG (for machines)
- SPL, Leq, Lmax, Lmin
- Datalogging function records up to 32,000 records
- Interface to transfer data to a PC
- Software for data transfer and assessment
- Min / Max functions
- Bar graph indication (4 dB)
- A and C frequency weighting
- Frequency range from 31.5 Hz to 8 kHz
- Impulse, fast and slow time weighting
- 1/2" Electret microphone
- ISO calibration certificate (optional)



Precision sound calibrator

## PCE-DSA 50

Sound level meter in octaves and third octaves in real time

The PCE-DSA 50 sound level meter is a class one device that analyses frequencies in octaves and third octaves in real time. Above all, it is ideal for taking measurements in the industrial sector, in sanitation, security and environmental safety. The device can take measurements over long periods of time and data can be analysed later on a computer. The sound level meter comes with an internal memory, allowing data to be transferred to a computer via a USB cable which is included in the order.

- Frequency analyser for octaves and third octaves
- Frequency weightings: A, C, Z
- Measurement range of 20 to 135dB
- Can be controlled from a computer
- Durable enclosure
- Large digital display
- Displays various measurement ranges
- Tripod connection
- USB cable, software and wind screen included



### Technical specifications

Measurement range	30 to 130 dB in 3 ranges
Resolution	0.1 dB
Accuracy	±1.5 dB
Updating	every 0.5 seconds
Frequency	31.5 Hz to 8 kHz
MIN / MAX functions	yes
LEQ	-
Memory	32,000 readings
Outputs	digital (USB)
Software	yes, in English
Frequency weighting	A & C
Indicator	LCD with analogue bargraph
Operating conditions	0 to +40 °C, <80 % r.h.
Power	9 V battery
Dimensions	278 x 76 x 50 mm
Weight	350 g
Applicable standards	IEC 651 type II, EN60651

### Contents

PCE-322 A sound level meter, USB cable, software, adjustment screwdriver, mini tripod, battery and user's manual

### Model No. Description

PCE-322 A Datalogger sound level meter

### Optional accessories

PCE-SC41	Sound calibrator (94 dB)
CAL-SL	ISO Certificate
MIC-3	Microphone extension cable (3 m)
STAT	Tripod mount



Precision sound calibrator

### Technical specifications

Measurement range	30 to 130 dB in 5 ranges
Resolution	0.1 dB
Accuracy	±1.5 dB
Updating	every 0.5 seconds
Frequency	31.5 Hz to 8 kHz
MIN / MAX functions	yes
LEQ	yes, automatic
Memory	32,000 readings
Outputs	digital (RS-232) and analogue
Software	yes, in English
Frequency weighting	A & C
Indicator	LCD (35 mm) with analogue bar graph
Operating conditions	0 to +40 °C, <80 % r.h.
Power	9 V battery
Dimensions	257 x 72 x 21 mm
Weight	310 g
Applicable standards	meets EC89/393/EWG, IEC60804, EN60651(for machines) IEC 651 type II

### Contents

PCE-353 LEQ sound level meter, RS-232, software, adjustment screwdriver, battery and user's manual

### Model No. Description

PCE-353 LEQ LEQ meter with data logger

### Optional accessories

PCE-SC41	Sound calibrator (94 dB)
CAL-SL	ISO Certificate
MIC	Microphone extension cable (5 m)
STAT	Tripod mount
NET-300	AC adaptor (300 mA)
RS232-USB	RS-232 to USB adaptor

### Technical specifications

Measurement range	20 to 135 dB (A)
Resolution	0.1 dB
Accuracy	± 0.8 dB (A)
Frequency	25 Hz to 16 kHz
Filters	octave: 31.5 Hz to 8 kHz third octave: 25 Hz to 16 kHz
Stored data	more than 20 measurement types, including Leq, Lx, LxFmn, LxFmx, LxS, LxSmn, LF, LS...
Interface	USB
Frequency weighting	A, C, Z
Time weighting	F ("Fast"), S ("Slow"), I ("Impulse")
Indicator	LCD, 128 x 64
Operating conditions	-10 to +50 °C, <90 % r.h.
Power	NiMH 6V rechargeable or mains adaptor
Dimensions	237 x 84 x 50 mm
Weight	600 g
Applicable standards	DIN EN 61672-1, DIN EN 60651, DIN EN 61260, ISO 7196

### Contents

PCE-DSA 50 sound level meter, wind shield, data cable, software, rechargeable battery, mains adaptor, carrying case and user's manual

### Model No. Description

PCE-DSA 50 Sound level meter, class 1

### Optional accessories

QC-10	Sound calibrator, class 1
CAL-SL	ISO calibration certificate

