Environmental Meter (Badge Type) PCE-MND 10
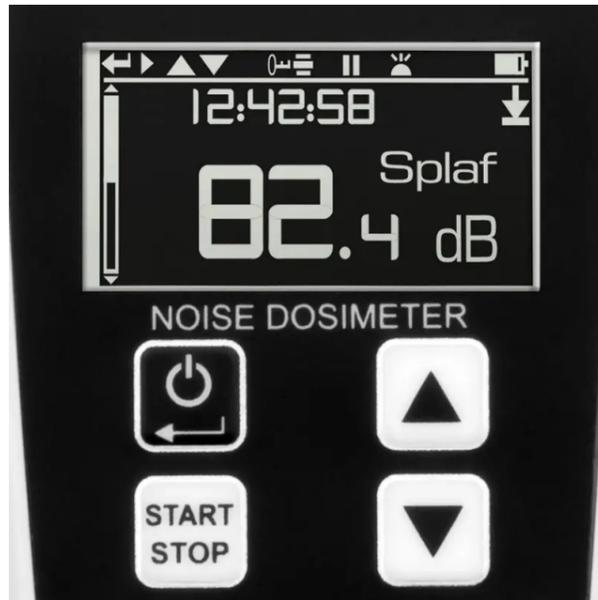
Environmental meter (badge type) according to IEC 61252:2002 / Measuring range 70 ... 140 dB / Crocodile clips / For use in occupational safety / Battery life >15 hours / USB interface / Key lock / Frequency weighting A, B and Z / Optional with ISO calibration certificate

The environmental meter (badge type) was specially developed for measuring noise exposure in workplaces and complies with the IEC 61252:2002 standard. With a measuring range of 70 ... 140 dB and a frequency weighting of A, B and Z, the noise dose meter is ideal for this. The time weighting on the noise dose meter can be selected between fast, slow and impulse. With the built-in 470 mAh battery, the noise dose meter has a runtime of >15 hours.

Up to three virtual noise dose meters can be set in an environmental meter (badge type). This has the advantage that up to three measurement standards can measure simultaneously. The display of the noise dose meter shows up to 14 measurement windows that can be set individually.

The data transfer from the environmental meter (badge type) to a PC takes place directly via the charging station. The recorded measurement data can be read out and analyzed with the software for the noise dose meter. In addition, all settings for the noise dose meter can be made via the software. Another special feature of the noise dose meter is that the charging stations can be coupled with each other. This has the advantage that several noise dose meters can be charged via one power pack. Up to four noise dose meters can be charged simultaneously per power supply.

For optimal support and positioning, the environmental meter (badge type) is attached to the work clothing of the respective employee with two crocodile clips. The distance between hearing and the noise dose meter should be between 10 and 15 cm (3.9 and 5.9").

- ▶ Frequency weighting A, B and Z
- ▶ Battery life of >15 hours
- ▶ Software for setting the parameters
- ▶ Measuring range 70 ... 140 dB
- ▶ IEC 61252:2002, ANSI S1.25-1991
- ▶ Optional with ISO calibration certificate

Subject to change

Specifications

Measuring range	**70 ... 140 dB (A, C)**
	90 ... 140 dB (Z)
Measuring range (peak value)	103 ... 143 dB PEAK
Resolution	**0.1 dB**
Accuracy	class 2
Frequency range	31.5 Hz ... 8 kHz
Frequency weightings	A, C and Z
Time weighting	fast, slow, impulse
Adjustable level increase	3, 4, 5, 6 dB
Threshold adjustment range	70 ... 90 dB
Threshold resolution	1 dB
Adjustment range of the criterion level	70 ... 90 dB
Resolution of the criterion level	1 dB
Display if the ambient condition is too loud	>115 dB
Memory	30 measurement runs with total 6101 measuring points
Timer	16 timers for an automatic data logging and 99 timers
Warm-up time	10 seconds after power on
Microphone	1/2 inch electret condenser
Display	128 x 64 pixel LC display
For applications according to the standard	IEC 61252:2002, ANSI S1.25-1991
Number of virtual dosimeters	3
Dosimeter standards	OSHA-80, OSHA-90, MSHA-80, MSHA-90, DOD, ACGIH, ISO-85, ISO-90, NR-15, NHO-01 In addition, up to 9 individual standards can be stored
Measurement parameters for all virtual dosimeter	DOSE (Dose), PDOSE (Pdos), TWA (Twa), PTWA (PTwa), LAVG (Lavg), LEPd (Lepd), PLEPd (PLepd), Exceed time (Las>105 or Las >115), **LEQ** (Laeq, Lceq, Lzeq), SEL (LaE, LCE or LZE), SEpa2h (Ea, Ec, Ez), PEAK (Pka, Pkc or Pkz), LEX8H (Lex8h), PLEX8H (PLex8h), EXPHrs (Exph), EXPsec (Exps), NEN
Additional measurement parameters for the first virtual dosimeter	MAX/MIN, L05, L10, L50, L90 and L95 at a 20 ms interval and a difference of 0.1 dB, LAEQ05, LAEQ10, LAEQ50, LAEQ90, LAEQ95 at a 1 s interval and a difference of 0.1 dB

More information

Subject to change

Interface	USB interface on the charging station
Power supply (battery)	3.7 V, 470 mAh, lithium polymer battery
Power supply (mains adapter)	primary: 100 ... 240 V AC, 50 ... 60 Hz, 0.7 A secondary: 9 V DC, 2 A
Operating time	>15 hours at 23 °C / 73 °F
Operating conditions	0 ... 50 °C (32 ... 122 °F), 10 ... 95 % RH, non-condensing
Storage conditions	-10 ... +60 °C (14 ... 140 °F), 10 ... 75 % RH, non-condensing
Dimensions	84 x 49 x 55 mm / 3.3 x 1.9 x 2.2 inch
Weight	77 g / 2.7 oz