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Technical Sound Data Logger PCE-NDL 10

PCE-NDL 10 is a high-quality sound level meter with data logging capabilities. This noise dosimeter records sound pressure level (SPL) measurements as well as dosimetry (dose) measurements in decibels (dB) and saves the measurement data to the internal memory or an SD card (SD card included).

Note: To set up the SD card for the first time, the PCE-NDL 10 must be connected to AC power (AC power supply NET-LUT or NET-LUT-US sold separately - see accessories tab).

- Measures SPL and dose in dB
- Manual or adjustable automatic data logging
- Data hold, min / max, date / time, auto shutdown (on / off) and audible alarm (on / off) functionality
- Internal memory and SD card slot (SD card included)
- RS-232 and USB interface
- Backlit LCD screen
- Portable

Technical Specifications

Type	SPL and dose
Measuring range	30 ... 130 dB (SPL) / 70 ... 130 dB (dose, in 1 dB increments)
Dose rating levels	80, 84, 85, 90 dB
Dose exchange rate	3, 4, 5 or 6 dB
Accuracy (at 23 ± 5 ° C, < 94 dB)	± 3.5 dB (31.5 Hz) ± 2.5 dB (63 Hz) ± 2.0 dB (125 Hz) ± 1.9 dB (250 Hz) ± 1.9 dB (500 Hz) ± 1.4 dB (1000 Hz) ± 2.6 dB (2000 Hz) ± 3.6 dB (4000 Hz) ± 5.6 dB (8000 Hz)
Resolution	0.1 dB
Frequency range	31.5 ... 8000 Hz
Frequency weighting	A and C
Time evaluation	125 ms (fast) / 1 s (slow)
Data logging	Manual (interval must be set to "0") or adjustable automatic
Adjustable auto logging interval	1 ... 3600 s
Sampling rate	Approx. 1 second
Storage	Internal memory for up to 16,000 readings, SD card slot for 1 ... 16 GB SD card (card included)
Interface	RS-232 and USB
Measurement error	≤ 0.1% of the total stored data

Measurement outside range	Display of "----"
Functions	Data hold, min / max, date / time, auto shutdown (on / off), audible alarm (on / off)
Calibration	Internal calibration possible at 94 dB with PCE-SC 42 acoustic calibrator (sold separately - see accessories)
Power supply	6 AAA Batteries or optional power supply
Operating conditions	0 ... +50 ° C (+32 ... +122 ° F), < 85% RH
Display	Backlit LCD, 50 x 30 mm (1.97 x 1.18")
Microphone	Electric condensation / Ø 12.7 mm (0.5")
Approx. device weight	250 g (0.56 lb)
Approx. device dimensions	132 x 80 x 32 mm (5.20 x 3.15 x 1.26")

Delivery contents

- 1 x Sound Level Meter PCE-NDL 10
- 1 x microphone with clip
- 1 x SD card
- 1 x carrying case
- 1 x strap
- 1 x user manual