With the sound level meter HD-2010-UC-1, the sound pressure level can be measured by programming 3 parameters, whereby the frequency weighting and the time constants can be freely selected. The measured sound levels can be recorded in a large memory and transferred to a PC using the Noise Studio software package supplied.
The class 1 sound level meter HD-2010-UC-1 with the option "Extended measurement data acquisition" is suitable for noise monitoring and acoustic mapping as well as with the optional acquisition and analysis of sound events for the evaluation of the acoustic climate. When measuring traffic noise near airports, railways and roads, the sound level meter can be used as a multi-parameter sound recorder, which also offers static analysis functions.

TECHNICAL SPECIFICATIONS:
$1 / 2$ inch microphone: UC52 free field, pre-polarized, capacitor type
Dynamic range: $\quad 30 \mathrm{dBA} . .143 \mathrm{~dB}$ peak
Linearity range:
Acoustic parameters:
Frequency weightings:
Time ratings:
Integration:
Statistical analysis:

Display:
80 dB
$S p l, L_{\text {eq }} L_{\text {eq }} I, S E L, L_{\text {ep }, d} L_{\text {max }} L_{\text {min' }} L_{\text {pk }}$ Dose, $L_{n}$
simultaneous $A, C, Z$ (only $C$ and $Z$ for $L_{p k}$ )
simultaneously FAST, SLOW, IMPULSE
from 1 s .99 h with delete function (back-erase)
Display of up to 3 percentile levels, from $L_{1}$ to $L_{99}$
Probability distribution and percentile level calculation from $L_{1}$ to $L_{99}$

- Parameters: $L_{\text {fp }} L_{\text {eq }} L_{\text {pk }}$ weighted $A, C$ or $Z$ (only $C$ or $Z$ for $L_{p k}$ )
- Measurement frequency: 8 measurements/s
- Classification: classes of 0.5 dB

Graphic LCD display with backlight $128 \times 64$

- 3 parameters in numeric format

Storage: $\quad .4 \mathrm{MB}$ internal, memory for more than 500 data records.
Input Output: $\quad$ RS232 serial and USB interfaces

- AC output (LINE)
- DC output

| PC programs: | Noise Studio (supplied with the device): PC interface for data download, setup and device management. Licensed software modules must be activated using a hardware key. <br> - NS4 monitor module. PC-based real-time acquisition. Synchronized audio recording. Remote monitoring and data collection. Remote control also via modem. The program enables the programming of measurements and calibrations with timers and event-controlled audio recordings with programmable trigger levels. |
| :---: | :---: |
| Operating conditions: | -Working temperature -10 .. $+50^{\circ} \mathrm{C}, 25 . .90 \%$ RH, (no condensate), $65 . .108 \mathrm{kPa}$. Degree of protection: IP64 |
| Power supply: | . 4 alkaline batteries or rechargeable NiMH batteries, type AA or external power supply $9 . .12 \mathrm{~V} \mathrm{DC}$ or 300 mA |
| Dimensions: | $445 \times 100 \times 50 \mathrm{~mm}$ with preamplifier ( $\mathrm{H} \times W \times \mathrm{D}$ ) |
| Scope of delivery: | Class 1 sound level meter HD-2010-UC-1, preamplifier HD2010PNE2, pre-polarized free field microphone UC52/1, windshield, USB connection cable. Noise Studio PC software, transport case and printed operating instructions. Supplied with an individual ACCREDIA calibration certificate, in accordance with IEC 61672. |

## NECESSARY ACCESSORIES:

## HD-2020

Item No. 700062
Class 1 sound calibrator according to IEC 60942: 2003

## ACCESSORIES:

## HD 2110-USB

Item No. 700038
Serial connection cable, PC connection: USB 2.0 type A

## SWD-10

Item No. 700039
Power in supply plug for HD portable instruments, 100 ... 240 V AC

## CPA/ 10

Item No. 700061
Microphone extension cable 10 m

## HD 40.1

Item No. 700056
Portable thermal printer incl. SWD-10 power supply and 5 rolls of paper

## HD 2110-RS

Item No. 700057
Serial connection cable, Printer connection: 9-pole Sub-D socket

## RCT

Item No. 475423
Spare paper, 4 rolls of thermal paper, 57 mm wide
Noise Studio (supplied with the device): PC interface for data modules must be activated using a hardware key.

- NS4 monitor module. PC-based real-time acquisition.

Synchronized audio recording. Remote monitoring and data lection. Remote control also via modem. The program enables the programming of measurements and calibrations with timers and event-controlled audio recordings with programmable trigger levels. sate), $65 . .108 \mathrm{kPa}$. Degree of protection: IP64

- 4 alkaline batteries or rechargeable NiMH batteries, type AA 45x100x50 mm when (HXWX

Class 1 sound level meter HD-2010-UC-1, preamplifier HD2010PNE2, pre-polarized free field microphone UC52/1, in, UsB connection cable. Noise Studio PC software, sport case and printed operating instructions. Supaccordance with IEC 61672.

## Noise Studio NS4

Item No. 475424
NS4 monitor module (demo version included in delivery HD2010)

## GENERAL:

With this software module it is possible to control the sound level meter remotely via PC The main features are:

- Real-time display of the recorded data in graphical and tabular form
- Possibility to remotely connect to the sound level meter via modem
- Acquisition of sound level data directly in the mass storage of the PC (monitoring function)
- Management of diagnostic and calibration functions
- Automatic acquisition and monitoring programs
- Possibility of capturing synchronized audio recordings with the sound level measurements by using simple trigger functions

