

Applications

- Leisure and community noise evaluation
- Vehicle and traffic noise
- Sound power

User friendly

- Measures all parameters simultaneously: L_{AS} , L_{AF} and their maximums
- One single range 24 – 130 dBA (no range changes)

Features

- Type 1 sound level meter meeting EN 60651
- Frequency weighting A
- Detachable preamplifier for use of the extension cable (CN-010) and the semi-permanent outdoor kit (TK-1000)

The **SC-3** is a type 1 sound level meter meeting the EN 60651 standard. Thanks to its high precision, performance and ease of use, it is the ideal unit for any kind of sound measurement. It has a single range, making it unnecessary to select a measurement margin depending on the level of noise to be measured.

All the functions are measured simultaneously, offering the user the possibility to display any one of them on screen. When measurement has been completed, all the functions measured and their maximum values may be consulted.

The **SC-3** preamplifier is detachable and can be placed at a distance from the **SC-3** by means of an extension cable. Also available is an outdoor kit (TK-1000) for open-air measurement.



Standards and regulations

It complies with the following standards:

- EN 60651:94 (A1:94) (A2:01) type 1
- ANSI S1.4:83 (A1:01) type 1
- Mark **CE**. Complies with the 73/23/EEC low tension standard and EMC 89/336/EEC modified by 93/68/EEC.

Measurement range

- **L_{AF}** and **L_{AS}**
Limits: 0 - 130 dBA
Upper limit for crest factor 3: 123 dBA
Primary range: 50 - 120 dBA

Electrical noise

- Electrical noise:
Maximum 20,4 dBA
Typical 19,8 dBA
- Total noise (electrical + thermal microphone)
Maximum 22,5 dBA
Typical 21,5 dBA

Frequency weighting

Complies with the EN 60651 standard type 1
A weighting: type 1.

Microphone

- Model **CESVA C-250**: 1/2" Condenser microphone. Polarization: 0 V (prepolarized). Nominal capacity: 17,0 pF. Nominal sensitivity: 46,4 mV/Pa in reference conditions.

Time weighting

L_{AF}, L_{AS} according to tolerances for class 1

Parameters

Functions: L_{AF}, L_{AS}
Resolution: 0,1 dB

Influence of humidity

| | |
|--|------------|
| Function range: | 30 to 90 % |
| Maximum error for 30%<H.R.<90%, 40 °C and 1 kHz: | 0,5 dB |
| Storage without batteries: | < 93 % |

Influence of magnetic fields

In a magnetic field of 80 A/m (1 oersted) at 50 Hz a reading is given of lower than 30 dB(A)

Influence of temperature

| | |
|-------------------------------|---------------|
| Function range: | -10 to +50 °C |
| Maximum error (-10 to +50°C): | 0,5 dB |
| Storage without batteries: | -20 to +60 °C |

Effects of vibrations

For frequencies between 20 and 1000 Hz and 1 m/s²: < 75 dB(A)

Battery

One 9-volt battery 6LF22 type

Normal duration in constant use:

- Alkaline: 5 h
- Lithium: 15 h

Dimensions and weight

| | |
|-------------------------|--------------|
| Dimensions: | 335x82x19 mm |
| Weight with battery: | 600 g |
| Weight without battery: | 545 g |

Supplied accessories

FNS-030 Case

PVM-05 Windscreen

9-volt battery

Optional accessories

CB-5 Sound calibrator

TR-40 Tripod. Maximum height 1.1 meters

TR050 Tripod. Maximum height 1.55 meters

TR001 Tripod support.

CN-003 Microphone extension cable 3 m

CN-010 Microphone extension cable 10 m

CN-030 Microphone extension cable 30 m

ML-50 Transport briefcase (49x36x14 cm)

ML-10 Transport briefcase (30x38x8 cm)

A-200 Mains feed 220 V a 9 V

A-100 Battery feed 12 V a 9 V

TK-1000 Outdoor kit

The characteristics, technical specifications and accessories may vary without prior notice