

SC-3 PRECISION SOUND LEVEL METER

- Type 1 sound level meter meeting EN 60651.
- Easy to use.
- Measures all parameters simultaneously: L_{AS} , L_{AF} and their maximums.
- One single range 24 – 130 dBA (no range changes).
- Frequency weighting A.
- Removable preamplifier, extension cable (CNR-012) and outdoor kit (TK-1000).

BASIC FEATURES

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 (CNR-012). Also available is an outdoor kit (TK-1000) for open-air measurement.



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Technical specifications for the SC-3 precision sound level meter

STANDARDS AND REGULATIONS

The unit complies with the following standards:

- EN 60651:94 (A1:94) (A2 :01) type 1
- IEC 60651:01 type 1
- ANSI S1.4:83 (A1 :85) type 1
- **CE** mark. Complies with the 73/23/EEC low tension standard and the CEM 89/336/EEC directive, modified by 93/68/EEC.

MEASUREMENT RANGE

L_{AF} , L_{AS}

Limits: 0 – 130 dBA

Upper 3 peak factor limit: 123 dBA

ELECTRICAL NOISE

Electrical noise

At 20°C: 19,8 dB (typical)

Electrical noise + microphone thermal noise

At 20°C: 21,5 dB (typical)

FREQUENCY WEIGHTING

Complies with the EN 60651 standard

A weighting

Class 1 weighting

MICROPHONE

Model: **CESVA C-250**

½ " condenser microphone

Polarization: 0 V (pre-polarized)

Nominal capacity: 17.0 pF

Nominal sensitivity: 46.4 mV/Pa in reference conditions.

TIME WEIGHTING

L_{AF} , L_{AS} , according to the tolerances of class 1.

PARAMETERS

Functions: L_{AF} , L_{AS}

Resolution: 0.1 dB

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

INFLUENCE OF HUMIDITY

Function range:

30 to 90 %

Maximum error for 30% < HR < 90% at 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 VIBRATIONS

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

BATTERY

One 9-volt 6LF22 battery

Typical duration when functioning constantly:

Alkaline: 5 horas

Lithium: 15 horas

DIMENSIONS and WEIGHT

335 x 82 x 19 mm

With battery 600 g

Without 545 g

CESVA instruments, s.l.

reserves the right to change specifications and accessories without notice.

STANDARD ACCESSORIES

- Case **FNS030**
- Wind screen **PVM05**
- 9-volt battery

OPTIONAL ACCESSORIES

- CB-5** Sound calibrator
- TR-40** Tripod
- ML-50** Transporting briefcase (49 x 36 x 14 cm)
- ML-10** Transporting briefcase (30 x 38 x 8 cm)
- A-200** Mains feed 220V to 9 V
- A-100** Battery feed 12 V to 9 V
- CN-003** Microphone extension cable 3 m
- CN-010** Microphone extension cable 10 m
- CN-030** Microphone extension cable 30 m
- TK-1000** Outdoor kit