



SOUND LEVEL METER CLASS 1

SC250

The **SC250** sound level meter is more than just a noise measuring instrument as it not only performs the measurements, but also performs the checks and calculations required by the standards, for, in situ, the final result.

It is the first integrating sound level meter with measurement protocols which simplifies the process to obtain the results. Guides the user step by step in performing measurements.

The SC101 has a large screen which displays all useful information for measurement. The displayed data vary, continuously adapting to the application chosen, so that only the necessary parameters are displayed in each application.



Integrated PC software

Standard Equipment

- ✓ Soundlevel meter SC-250.
- ✓ Protective case.
- ✓ Protective Windscreen.
- ✓ Protective sponge.

Technical Data

Certificates and standards

- ✓ UNE-EN 61672-1:05 class 1, UNE-EN 60651:96 (A1:97) (A2:03) class 1, UNE-EN 60804:02 type 1
- ✓ EN 61672-1:03 class 1, EN 60651:94 (A1:94) (A2:01) class 1, EN 60804:00 type 1
- ✓ IEC 61672-1:02 class 1, IEC 60651:01 class 1, IEC 60804:00 type 1
- ✓ ANSI S1.4:83 (R2001) tipo 1, ANSI S1.43:97 (R2002) tipo 1, ANSI S1.11:04
- ✓ CE marking Complies with the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC as amended by 93/68/EEC

Rango de medida

C-130 + PA-13

- ✓ LF, LS, LT y Lt

Measuring range:	A	C
Upper limit:	137	137
Lower limit:	24,8	25,8

C-250 + PA-14

- ✓ LF, LS, LT y Lt

Measuring range:	A	C
Upper limit:	137	137
Lower limit:	23,7	26,9

C-130 y C-250

- ✓ Lpeak

Linear measuring range:	55 – 140 dB
-------------------------	-------------

Ruido

C-130 + PA-13

- ✓ Electrical noise:

Maximum	A	C
Typical	15,7	17,1
	15,0	16,3

- ✓ Total noise (electrical + thermal microphone):

Maximum	21,2	22,0
Typical	20,6	21,8

C-250 + PA-14

- ✓ Electrical noise:

Maximum	A	C
Typical	15,7	16,7
	15,1	16,4

- ✓ Total noise (electrical + thermal microphone):

Maximum	18,9	20,8
Typical	18,4	20,2



Technical Data

Peak detector Lpeak

Rising time <75 ms

Microphone

- Model C-130: condenser microphone ". Nominal Capacity 22.5 pF. Nominal sensitivity: 17,5 mV / Pa in reference conditions.
- Model C-250: pre-polarized condenser microphone ". Nominal Capacity 17.0 pF. Nominal sensitivity: 46,4 mV / Pa in reference conditions.

Frequency weightingl

Achieves IEC 61672 standard Class 1 Weightings A and C

Time weighting

LF, LS, as Class 1 tolerances

Parameters

Resolution: 0.1dB

Influence of humidity

Operating margin in absence of condensation: 25-90% maximum error for 30% <HR <90% at 40 ° C and 1 kHz: 0.5 dB Storage without batteries: <93%

Effects of magnetic fields

The sound level meter complies with the basic specifications of standard 61672-1 for the required immunity to the fields to the frequency of the AC Power Supply and radio frequency.

Influence of temperature

Operation range: -10 to +50 ° C
Maximum error (-10 to +50): 0.5 dB
Storage without batteries: -20 to +60 ° C

Effects of vibrations

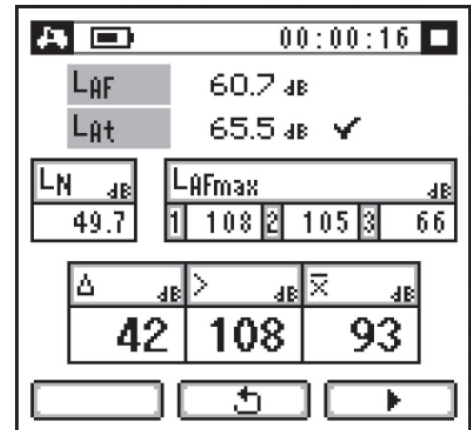
Frequency 20-1000 Hz and 1 m / s2: <75 dB (A)

Power Supply






Two 1.5 V AA batteries (LR6).
Typical duration life with continuous use: 14 hours

Dimensions

- Dimensions: 336 x 82 x 20 mm
- Weight: with batteries: 487 g. without batteries: 438 g



Optional Equipment

	CB006	Type 1 acoustic calibrator.
	TR-40	Tripod for sound level meters faster (1.1 m.)
	TK1000	Kit for exterior measurements: with desiccant, preview and micro protection against rain, wind and birds. Includes 3m cable, carrying case, microphone adapter.
	CN003	Microphone extension cable (3m)
	ML040	Transport case (48 x 37 x 16 cm)

GEN-NET	Configuration, software and installation in an Ethernet network. (Requires GEN-SOFT)
GEN-INTE	Standard integration software
GEN-INTO	Integration software other non-integrated management software