



INSTRUCTION MANUAL

MODEL: N05CC

User's Manual

Sound Level Meter



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- (1) Select the following buttons or function settings.
 - Display: dB, A, Hi or Lo, F
 - Function: A-Weighting
 - Response Time: FAST
 - Level range: 30 to 100dB(Lo) or 60 to 130dB(Hi)
 - Measurement mode: MAX Hold and Data Hold Mode function disable.
- (2) Fit wind shield onto top of meter.
- (3) Open battery cover and remove the battery (without disconnecting it) to adjust the CAL94dB potentiometer of the unit. The LCD screen will indicate the desired sound level.
 - All products are fully calibrated.

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I. Safety information

Read the following safety information carefully before attempting to operate or service the meter.

Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.


● Environment conditions

- 1 Altitude up to 2000 meters
- 2 Relative humidity 90% max.
- 3 Operational ambient temperature 0~40°C

● Maintenance & Clearing

- 1 Repairs or servicing not covered in this manual should only be performed by qualified personnel.
- 2 Periodically wipe the case with a dry cloth. Do not use abrasives or solvents on this product.

● Safety symbols

 Meter is protected throughout by double or reinforced insulation.

When servicing, use only specified replacement parts.

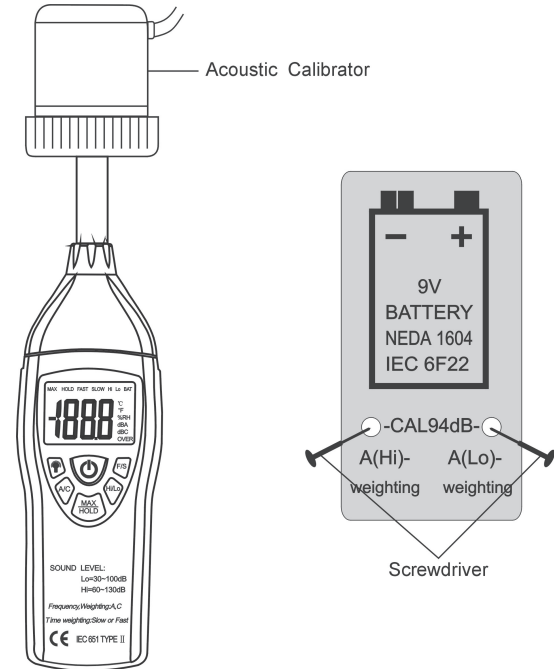
 EMC compliant

II. General Description

Thank you for using our Sound Level Meter. To ensure that you get the most from it, we recommend that you read and follow the manual carefully before use.

VIII. Calibration Procedures

Using a standard Acoustic Calibrator (94dB, 1kHz Sine wave)



- (4) Hold the instrument comfortably in hand or fix on tripod and point the microphone at the suspected noise source, the sound pressure level will be displayed.
 - (5) When MAX (maximum hold) mode is chosen. The instrument captures and holds the maximum noise level for a long period using any of the time weightings and ranges.
 - (6) When HOLD (data hold) mode is chosen.The hold function freezes the reading in the display. Press the HOLD button momentarily to activate or to exit the HOLD function
 - (7) Turn OFF the instrument and remove battery when not in use
- This unit conforms to the IEC651 type 2, ANSI S1.4 type 2 for Sound Level Meters.

This Sound Level Meter has been designed to meet measurement requirements of safety engineers, health and industrial safety offices and sound quality control in various environments.

- Ranges from 30dB to 130dB at frequencies between 31.5Hz and 8 KHz.
- Display with 0.1dB steps on a 4-digits LCD.
- With two equivalent weighted sound pressure levels,
- A and C.

III. Specifications

Standard applied: IEC651 type 2, ANSI S1.4 type 2
 Frequency range: 31.5Hz~8KHz
 Measuring level range: 30~130dB
 Frequency weighting: :A/C
 Microphone: 1/2 inch electric condenser microphone
 Calibration: Electrical calibration with an internal oscillator (1kHz sine wave)
 Display: LCD
 Digital display: 4 digits
 Resolution: 0.1dB
 Display Up data: 0.5 sec.
 Time weighting: FAST(125mS), SLOW(1 sec.)
 Level ranges: Lo: 30-100dB
 Hi: 60-130dB
 Accuracy: ± 1.5 dB (under reference conditions)
 Alarm function: "OVER" is show when input is out of range
 Maximum hold : Hold reads the maximum value, with decay < 1dB/3minutes.
 Auto power off : Meter automatically shuts down after approx. 15 minutes of inactivity.
 Power supply: One 9V battery (Order Code L46AL)
 Battery life: About 50hrs(alkaline Battery)
 Operation temperature: 0 to 40°C(32 to 104°F)
 Operation humidity: 10 to 90%RH

Storage temperature: -10 to 60°C (14 to 140 °F)

Storage humidity: 10 to 75%RH

Dimensions: 210(L)X55(W)X32(H)mm

Weight: 230g (including battery)

Supplied with 9V battery, storage case and instruction manual.

- (2) To achieve more accurate measurement, use an extension cable to separate the microphone from the main body so that the effect of unexpected sound reflection can be eliminated.
- (3) Calibrate the instrument before use if it has not been used for a long time or if the last operation was in bad environmental conditions.
- (4) Do not store or operate the instrument at high temperatures or in high humidity.
- (5) Keep microphone dry and avoid severe vibration.
- (6) Please take the battery and keep the instrument in low humidity environment. When not in use.

VII. Taking Measurements

- (1) Open battery cover and insert a 9 volt battery into the battery compartment.
- (2) Turn on power and select the desired response time and weighting. If the sound source consists of short bursts or only catches the peak sound level, set the response time to FAST. To measure average sound, use the slow setting. Select A- weighting for measuring general noise sound level and C-weighting for measuring the sound level of acoustic material.

- (3) Select desired level

⑧ MAX/ Hold button

The MAX Hold position is used to measure the maximum level of sound. The maximum measured level is updated continuously. Pressing the button again will release the hold and allow a further measurement.

Data Hold button: Press and hold the button for over 2 second to turn the data hold function on or off.

The hold function freezes the reading in the display.

⑨ Microphone

1/2 inch electric condenser microphone

⑩ Battery Cover

V. Measurement Preparation

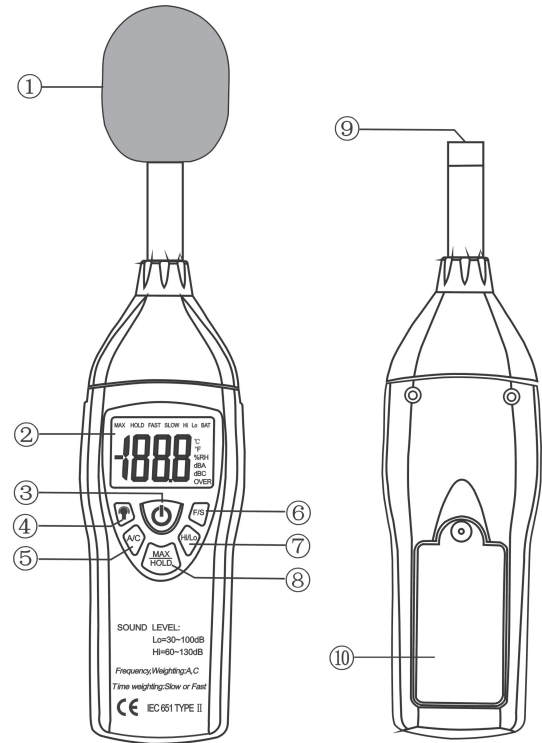
(1) Battery loading:

Remove the battery cover on the back and insert a 9V battery.

(2) Battery replacement:

When the battery voltage drops below the operating voltage, "BAT" appears on the LCD screen. If this appears the battery should be replaced with new one.

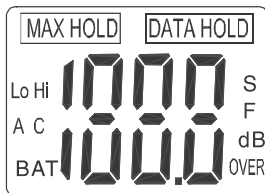
V. Name and Functions



① Wind speed

If operated at wind speeds over 10m/sec, please put a protective shield in front of the microphone.

② Display



SYMBOL

LCD

MAX

OVER

F

S

A

C

Lo

Hi

BAT

FUNCTION

4 digits

Maximum value hold

Over range

Fast response

Slow response

A-Weighting (normal sound)

C-Weighting (acoustic sound)

Low Range (30~100dB)

High Range (60~130dB)

Low-Battery

③ Power ON/OFF button

Turns the meter power ON/OFF

④ Backlight Button:

Turns the meter backlight ON/OFF

⑤ A-weighting / C-weighting select button

A: A – Weighting. For general sound level measurements.

C: C – Weighting. For checking the low- frequency content of noise.

(If the C-Weighted level is much higher than the A-Weighted level, then there is a large amount of low-frequency noise)

⑥ Time weighting select button

F (fast response): for normal measurements (fast varying noise)

S (slow response): for checking average level of fluctuating noise

⑦ Level range select button

Lo: 30~100dB; Hi: 60~130dB When “OVER” is indicated, the meter automatically switches to another range for measurement.