SOUND LEVEL METER
Operation Manual

CE

INTRODUCTION

Thank you for using the.To ensure that you can get correct operation,we recommend that you read and follow the manual carefully before use.
This unit conforms to the IEC651 Type2, ANSI S1.4 Type2 .
This Sound Level Meter has been designed to meet the requirements of safety Engineers, Health, Industrial safety offices and quality control in various environments.

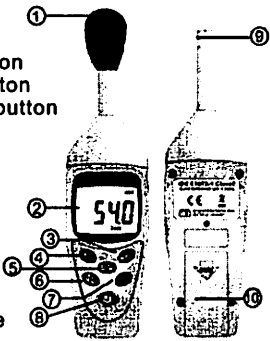
SPECIFICATION

Display:4 digits LCD **Resolution:** 0.1dB,
Display update: 0.5 sec.
Standard applied: IEC651 Type2, ANSI1.4 Type2.
Frequency range: 31.5Hz~8KHz.
Measuring range: A Weighting 30 ~130dB.

C Weighting 35~130dB.
Microphone:1/2 inch electret condenser microphone.
Response time: FAST(125mS),SLOW(1 sec).
Level ranges: 30 ~130dB(Auto Range).
Accuracy: ±1.5dB. **Dynamic range:** 50dB.
MAX/MIN records
Data hold power indicator: Freezes the display reading.
Power supply: 9V NEDA 1604,IEC 6F22,JIS 006P
Power life : About 50 hrs (Alkaline battery).
Op. altitude: 2000M under the elevation above sea level.
Operation Temp. & RH: 5℃~40℃,below 80%RH
Storage Temp. & RH: -10℃~60℃,below 70%RH
Dimension: 200(L)x55(W)x38mm(H).
Weight: About 170g. (Incl. battery)

DESCRIPTION

1.Windscreen
2.Display
3.DATA HOLD button
4.Frequency weighting button
5.Time weighting select button
6.Maximum/Minimum hold button
7.Backlight button
8.Power button
9.Microphone
10.Battery Cover



WINDSCREEN
If you operate under wind speed over 10m/sec, put windscreen on top of the microphone.

POWER BUTTON
Turn on or off the sound level meter . It will be auto powered off automatically after 5 minutes idle time

MAX/MIN HOLD BUTTON
Press to select MAX value. Press again to select MIN value, Press again to exit the MAX/MIN mode.

FREQUENCY WEIGHTING BUTTON
A: A-Weighting:General sound level measurements.
C:C-Weighting:Checking the low-frequency content of noise.(If C-Weighted level is much higher than A-weighted level,it means there is a large amount of low-frequency noise)

TIME WEIGHTING BUTTON
FAST: For normal measurements.
SLOW: For checking average level of fluctuation noise.

HOLD BUTTON
Press the button to freeze the reading on LCD.

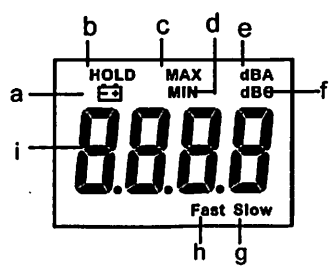
BACKLIGHT BUTTON
Enable the display backlight to easy read in dark environments. Press more than 1 second to disable backlight, or backlight automatically OFF after 15 seconds.

MICROPHONE
1/2 inch electret condenser microphone.

BATTERY COVER

LCD DISPLAY

a. Power indicator
b. DATA HOLD indication
c. Maximum indication
d. Minimum indication
e. A-Weighting
f. C-Weighting
g. Slow response
h. Fast response
I. Sound level read out



CALIBRATION PROCEDURES

Using a standard Acoustic Calibrator(94dB,1KHz Sine wave). You have to buy a calibrator before using this function.
Find from the store you bought the sound level meter for Acoustic calibrator. Following the under steps:

1. Select from button to set dBA ,time weighting :FAST
2. Insert the Microphone nozzle carefully into the insertion hole of the calibrator.Press A/C and HOLD buttons simultaneously more than 1 second.
3. When LCD is blinking, release A/C and HOLD buttons, the sound level meter will display 94.0 dBA, it means the calibration is done.
4. Recommend recalibration cycle : 1 year.

OPERATING PRECAUTION

Wind blowing across the microphone would cause additional extraneous noise. Once using the instrument in the presence of wind, it is necessary to mount the windscreen preventing to pick up undesirable signals.

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.

Calibrate the instrument before operation if the instrument was not used for a long time or operation at bad environment.

Do not store or operate the instrument at high temperature and high humidity environment.

Keep microphone dry and avoid severe vibration.

Please take out the battery and keep the instrument in low humidity environment. When it is not in use.

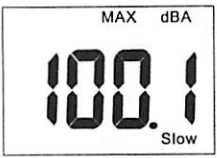
MEASUREMENT

Turn on power and select the desired response time and weighting. If the sound source consists of short bursts or only catching sound peak, set response to FAST.

To measure average sound level, use the slow setting. Select A weighting for general noise sound level and C weighting for measuring sound level of acoustic material.

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.

When MAX/ MIN (maximum, minimum hold) mode is chosen. The instrument captures and holds the maximum or minimum noise level.
Press to select MAX value,
press again to select MIN value,
press again to exit the MAX/MIN mode, now "MAX" or " MIN" symbol disappears.

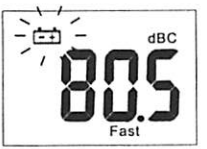


Turn off the instrument and remove the battery when it is not in use.

BATTERY REPLACEMENT

When you see an icon [-+] appears on the LCD as below, recommend to replace with a new battery in order to get accurate reading.

Open the rear battery compartment, install a new 9 volt battery, check the right polarity in place.
Close the battery cover gently after installing with a new battery.



STANDARD PACKING

Package supplied with:
1. Sound level meter
2. Operation manual
3. Battery 9V
4. Nylon carrying case
5. Windscreen (buffer)

Optional accessories:
Sound level calibrator

IEC 61672-1 Class2

SM-100(30-130dB)

9V BATTERY 1604 6F22 006P