Digital Sound Level Meter MS6700 Operation Manual

Thank you for selecting our production. Please read the following information carefully before using the meter. The Sound Level Meter has been designed to measure sound level for various environments, It is used to detect noice, music level or sound engineerings...

II. Safety information

Please use it according to the following usage.

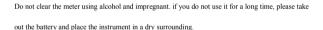
Environment conditions:

Altitude: less than 2000 meters.

Relatively humidity 80% max

Operation temperature 0~40°C

Maintenance & save



Safety symbols:

回

Meter is protected by double insulation

C€

Comply with European Union's 93/68/EEC

III. Functions & Features

The meter has been designed according to the IEC651 Type 2, ANSI S1.4 Type 2.

Measurement range is from 30dB to 130dB and automatic ranging.

With two equivalent weighted sound pressure levels, A and C.

Corresponsive rate select: FAST/SLOW

Maximum value locked.



Clock and calendar function.

AC and DC analog signals output, which can be linked to frequency analyzer or X-Y axis recorder.

Background light for working in the night, to save power, the background light shines for 5 seconds,

then closes automatically.

Secondary plasticizing meter shell.

Good circuit designed to save power, the battery can be used for a long time.

IV. Specifications

Accuracy: ±1.5dB

Response frequency: 31.5Hz-8kHz

Dynamic range: 50dB

Frequency weighting: A\C

Time weighting: FAST 125ms, SLOW 1sec

Microphone: Electret Condenser microphone

Digital display: 4 digitals, resolution 0.1dB,sampling rate 2 times/s

Analog bar display: Each analog bar is as 1dB,

sampling rate 20 times/s

Measurement ranges: 30-80dB, 40-90dB, 50-100dB,

60-110dB, 70-120dB, 80-130dB.

Total of 6 ranges

Auto-range: Micro-computer can choose the best

measurement ranges

Over range indicator: UNDER(less than range) and OVER

(over range)

AC signal output: 0.707 Vrms at FS (Auto-range mode

isn't included) Output impedance approx. 600Ω

DC signal output: 10mV/dB Output impedance approx.100Ω

Power supply: Four LR03 AM4 1.5V SIZE AAA alkaline cells

Power life: About > 35hrs(alkaline cells)

Continuous operation

AC adapter: Voltage 9vDC

Voltage ripple <100mVpp

Supply Current >100mADC

Socket pin Ground

Casing positive

External Diameter 3.5mm

Operating temperature: 0 ~ +40°C

Operating humidity: 10 ~ 80%RH

Storage temperature: -10 ~ +60°C

Storage humidtiy: 10 to 70%RH

Dimensions: 245(L)×80(W)×35(H)mm

Weight: Approx.350g(including battery)

Accessories: Earphone plug, Operation manual, Battery,

Windscreen.

V. Preparation before using

Remove the battery cover on the back and put in six 1.5V 7# alkalescent battery.

Close the battery cover.

When the battery voltage drops below the operating

voltage, mark " appears and flashes. It must bedone to replace all batteries with new one.

When the DC adapter is used, insert the plug of the adapter into the DC 9V connector on the side panel.

VI. The method of usage

 Press the power switch, LCD displays the default range(40-90dB). and displays the sound level of a spot. If the display appears "UNDER" or "OVER"

symbol, it indicates the sound level less than or more than 40-90dB, measurement is invalid. you need

to set the meter's range to a correct position.

Set range:

Press LEVEL ▲ or ▼, choosethe proper range,

measure the sound level of the spot. When LCD appears "UNDER" symbol, it indicates that the range is high, you need to press LEVEL ▼ to set lower range until no "UNDER" symbol. When LCD appears "OVER" symbol, it indicates that the range is low, you need to press LEVEL ▲ to set higher range until no "OVER" symbol.

3. Choose weighting mode:

when you measure a general noise sound level, you could choose 'A' weighting bypressing AC button. To measure a acoustic sound level, choose "C".

- 4. When you want to get a real-time sound level, choose FAST by pressing FAST/SLOW button. To get average sound level, choose "SLOW".
- 5. When you want to get the maximum value of a sound level, you can press "MAX" button.
- When you want to measure in the night, you can open the background light by pressing "LIGHT" button

VII. Set time and date

Press "MAX" button then turn on the meter, LCD display time(hour, minute, second), the second digitals are flashing, press LEVEL ▲ or LEVEL ▼ to increase or decrease time; press "MAX" to set minute, hour, mouth, year. after setting is completed, turn off

the meter.

VIII. Calibrating Sound level Meter

When Sound Level Meter is used for a long time, it's accuracy may reduce, we need to check and calibrate it, normally a time for each year.

Calibration needs a standard sound source, please contact with us about the method.

IX. Cautious

Do not use the meter in a high temperature or wet place.

When you do not use for a long time, please take out battery to avoid damaging the meter by electrolyte.

Auto-range (30-130dB) is unfit for measuring a instantaneous and impactive noises.

To measure sound level in a windy environment, please put windscreen on the microphone to avoid noises from wind

If mark "is on the screen, it indicates the voltage is low, you must replace battery, we advise you to use alkalescent battery.