



Sound Level Meter

Model No.: MS-931

Thank you for purchasing MEET sound Meter

1. Contents

- Sound meter
- Operating manual

2. Introductions

This Sound Level Meter is designed to meet the measurement requirements of safety engineers, health, industrial safety offices and light quality control in various environments like factory, school, construction stits, etc.

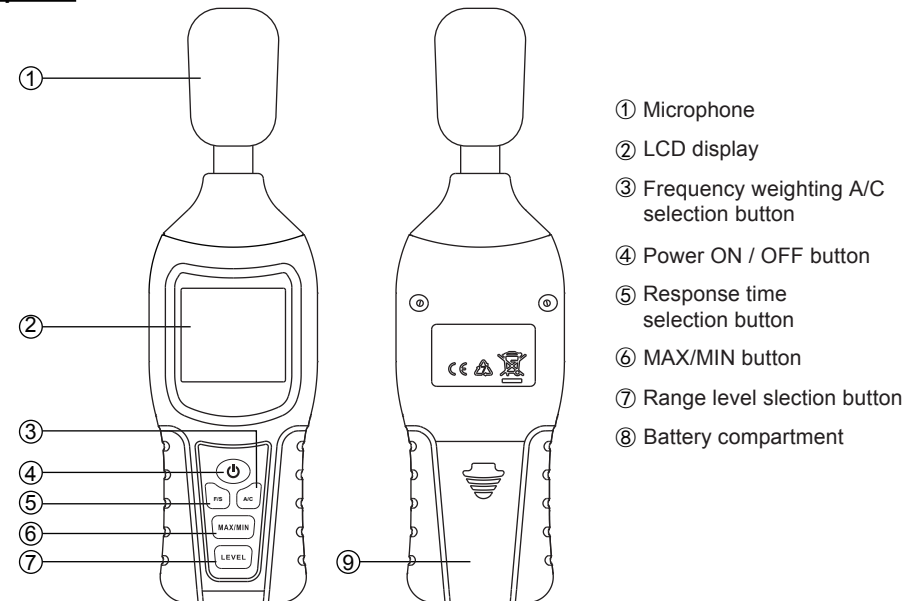
3. Advanced Features

- High accuracy, fast response
- Frequency weighting : A and C
- Fast / slow time weighting
- Analog bar-graph display
- Over range indication
- MAX / MIN record reading
- LCD display with backlight
- Low battery indication
- Hold / Freeze reading
- Enable / Disable auto power off (APO)

4. Specifications

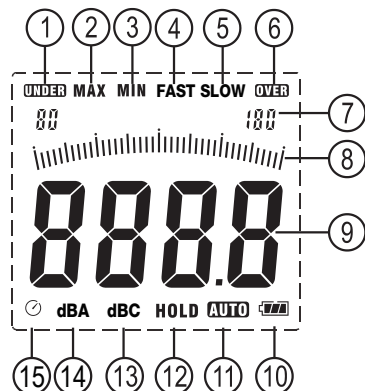
Display	4 digits color LCD display
Measuring level range	30dB~130dB
Dynamic range	50dB
Frequency range	31.5Hz~8KHz
Accuracy	±1.4dB
Frequency weighting	A frequency weighting
Time weighting	FAST : 125ms / SLOW : 1s
Microphone	1/2 inch electrets condenser microphone
High / low reading indication	>100dB, LCD displays "HI" ; <100dB,LCD displays "LO"
Data update	500ms
Resolution	0.1
Enable / Disable Auto power off	The meter shuts off automatically after 15 minutes inactivity under auto power off mode, disable auto power off is available
Applied Standard	IEC61672-1 CLASS2
Operating Condition	-20°C ~ 60°C / -4°F ~ 140°F; 10% RH ~ 90% RH
Storage Condition	-30°C ~ 60°C / -4°F ~ 140°F; 10% RH ~ 75% RH
Battery Powered	1 x 9V (6F22 / 6LR61 / 1604)
Battery Life	≥ 30 hours
Dimensions (L x W x D) (approx.) mm	158x62x32
Weight (approx.) grams	178

5. Descriptions



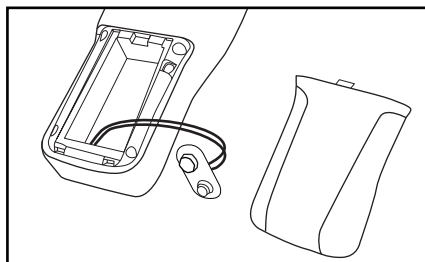
6. LCD display explanations

- | | |
|-------------------------------|-------------------------------|
| ① Low range indication icon | ⑫ Hold / Freeze readings icon |
| ② MAX icon | ⑬ dBC icon |
| ③ MIN icon | ⑭ dBA icon |
| ④ Fast sampling time icon | ⑮ Auto power off icon |
| ⑤ Slow sampling time icon | |
| ⑥ Over range indication icon | |
| ⑦ Range indication | |
| ⑧ Analog bar-graph indication | |
| ⑨ Lux/Fc readings | |
| ⑩ Low battery icon | |
| ⑪ Auto range icon | |



7. How to replace the battery

When the battery warning icon '⚡' display on the LCD, Push the battery cover out and replace 1 pc fresh 9V battery as the correct polarity. To avoid chemical leakage from the battery, remove the battery if you are intended not to use the meter for a while



8. How to use

A) Power ON / OFF Function

press '⏻' button for one second, the meter will be on; keep pressing this button for approx. 3 seconds, the meter will be off.

B) Backlight

After turning the meter on, momentarily press '☼' backlit will be on / off, it will automatically turn off after approx. 30 seconds of inactivity.

C) Data Hold

After turning the meter on, momentarily press 'MAX/MIN' button, 'HOLD' icon will appear on the LCD, which indicates the data is frozen. To release the held reading, press the button again.

D) Frequency weighting A/C selection

Press the 'A/C' button to select ECT A or C.

dBA : A frequency weighting (the noise that human ear can hear)

dBC: C frequency weighting (response to machine monitor)

E) FAST/SLOW selection

After power the meter on, press 'F/S' to select FAST or SLOW measurement.

FAST: Fast sampling time measurement, 1 time per 125ms

SLOW: Slow sampling time measurement, 1 time per second.

F) MAX/MIN

In the measurement mode, press 'MAX/MIN' button one time, 'MAX' icon will appear on the LCD to view the current MAX reading, press the button again, "MIN" icon will appear to view the current MIN reading. Press this button once more to exit the 'MAX/MIN' mode.

Press 'MAX/MIN' button for 3 seconds above, re-start to calculate the maximum or minimum.

G) Range selection

Press 'LEVEL' button to select the range level, there are four selectable levels from 'Lo', 'Med', 'Hi', to 'Auto' in the circular:

Lo : 30dB~80dB

Med : 50dB~100dB

Hi : 80dB~130dB

Auto : 30dB~130dB

Before power on the meter, press 'LEVEL' button first, then press '⏻' to disable auto power off function

9. Notes

A) This meter has already been calibrated before delivery. Do not revise the calibration parameters without professional personnel and device.

B) All products are well calibrated before delivery. Recommended recalibration at 1 year intervals.

C) Repairs or servicing not covered in this manual should only be performed by qualified personnel.

D) Wipe the unit with a dry soft cloth periodically. Do not use abrasives or solvents on this instrument.

E) Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.

F) When the battery is low, LCD display "⚡" a new battery is needed to replace.

G) Do not store or operate the meter in high temperature or humidity.

H) Check whether the photo detector is well connected with the photo detector socket before measurement.

I) When manual range is needed, press "LEVEL" key to select the desired range, if "UNDER" or "OVER" icon appears on the LCD, which indicates incorrect range and need to select again.