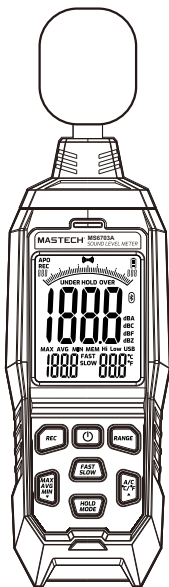


# MASTECH®

## MS6703A/B

Digital Sound Level Meter  
User Manual



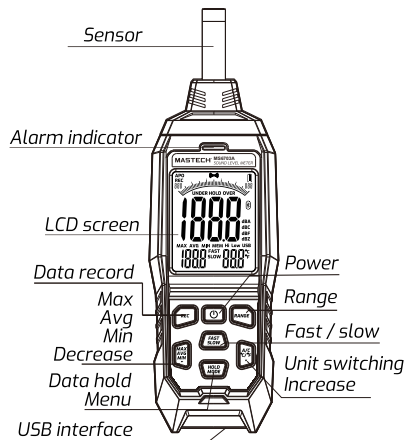
Thank you very much for your patronage and choosing our products. Before you use this product please read this manual carefully as it will familiarize you with the correct operating procedure of our MASTECH product.

**△ Notice:** Before using this instrument, please read this manual carefully.

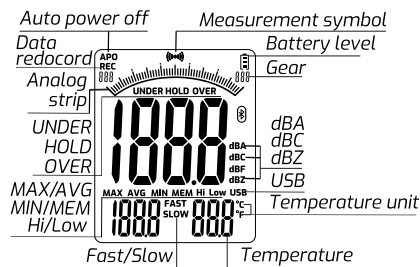
### Product Features

- Wide measurement range: 30~130dB;
- With A/C/Z frequency weighting, FAST/SLOW time-weighted and rate selection;
- With data hold, max/min/avg measurement function;
- With data records download and real-time PC connection function, it can display real-time data sheet and real-time data charts; export and print data sheet and charts; PC software is suitable for Win7, Win8, Win10 (only MS6703B);
- With A/C/Z analog signal output, it can be connected to frequency analyzer or X-Y axis recorder for statistical analysis;
- The upper and lower limit can be set separately. When over upper lower limit, there will be a buzzer alarm sound, and the alarm light will flash;
- Analog bar scale indication and low battery indication function.

### Panel Instruction



### Display



### Specification

Model	MS6703A	MS6703B
Micro phone	High precision 1/2 inch micro phone	
Range	30~130dB	
Measuring level	30~70dB, 60~90dB, 80~110dB, 100~130dB	
Resolution	0.1dB	
Accuracy	±1.5dB(sound pressure reference, 94dB@1kHz)	
Frequency weighting	A/C weighting	A/C/Z weighting
Time weighting	FAST: 0.125s, SLOW: 1s	
Sampling rate	2 times/s	
Frequency response	31.5Hz~8kHz	
Analog bar	One scale represents 1dB	
Display	4 digit, max 1999	
Ambient temp.	Range	0~60°C
Accuracy	±2°C	
Over range	"OVER-HI", "UNDER-LO"	
Analog signal output	-	AC/DC signal is output by the headphone jack socket: AC=100Vrms, DC=10mV/dB
USB connection	-	√
Data logger	1999 groups	
Synchronous update	Refer to PC information for program update	
Auto power off	15 mins (can be canceled)	
Working environment	-10~50°C, max 80%RH, indoor altitude<2000m	
Storage environment	-10~50°C, max 70%RH (battery removed)	
Product size	229 x 70 x 35mm	
Screen size	53 x 44mm	
Weight	Approx. 215g (battery not included)	
Power	3 x 1.5V AAA (LR06) battery USB micro interface 5V	

Button Function Description

- ⏻** : Power button, long press to turn-on and tap to turn-off;
- HOLD** : Data hold, tap to turn on and turn off the data hold;
- A/C**  
**°C/°F**  
**▲** : Short press to switch between A-weighting, C-weighting and Z-weighting, long press>2s to switch the temperature unit; **▲** refers to increase value under MODE menu;
- REC** : Data storage button, long press≥2s to start the data recording, short press to stop and restart, then long press≥2s to close the data recording;
- MAX**  
**AVG**  
**MIN**  
**▼** : Short press to cycle among the max value, min value, avg value and the sub-window will demonstrate the value; **▼** refers decrease value under MODE menu;
- FAST**  
**SLOW** : Time weighting switch, short press to switch between FAST and SLOW;
- RANGE** : Short press to switch the measurement range;
- MODE** : Long press ≥2s to enter the menu;
- Press the 1st time to enter the HI alarm limit setting;
- Press the 2nd time to enter the LOW alarm limit setting;
- Press the 3rd time to enter the REC data recording interval time adjustment. You can adjust the recording interval time through the up and down keys. The default value is 5s, it has 9 levels of 1s, 5s, 10s, 30s, 1min, 30mins, 1h, 12h, 24h in total;

Press the 4th time to enter the data record storage, the REC symbol is displayed, and the records groups is demonstrated at the bottom. You can check the records by pressing the up and down buttons. Under this menu, long press the MAX/AVG/MIN+A/C button for ≥2s to store data; Press the 5th time to enter AC/DC output switching, the default is AC output when power on, the display shows AC characters, press **▲** and **▼** to switch AC/DC output cyclically; Press the 6th time to exit the menu. Long press MODE>2s to exit the menu and save the data;

**Note:** The recorded data will be saved to avoid lost after power-off or replace the battery.

Measurement Method

- Press **⏻** to turn on the meter;
- Refer to the function description of each button, press the function button to enter each measurement function;
- Check the measured value on the LCD display;
- Measuring done, press the power button to turn it off.

Auto Power Off and Cancel Auto Power Off

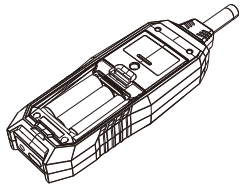
- The auto power off function switches on by default, the screen shows the APO symbol when turning on the meter. Only if you stop using it for 15 minutes will it trigger the automatic power off mode;

- If you need to cancel the automatic shutdown function, press HOLD and POWER button to turn on the meter, the APO symbol will not appear and the automatic power off function is canceled. The auto power of function can be restored as long as restart the meter;
- When the meter turns on the auto shutdown function, the display screen shows the APO symbol, APO symbol will disappear once canceled the auto shutdown function;
- The meter will not automatically power off even if the APO symbol is on under USB powered mode.

Battery Replacement

- When low battery appeared, the battery level shows empty, indicating that the battery needs to be replaced;
- Replace the 3pcs AAA batteries by removing the battery compartment cover, please pay attention to the battery polarity when placing the battery into the compartment;
- Ensure that the compartment cover is securely fastened when finished.


**Remark:** when the battery is lower than about 3.8V, the battery low voltage prompt.



Maintenance

- Do not measure for a long time under high temperature and high humidity environment;
- Regular calibrated is needed to maintain the accuracy of the device;
- Please remove the battery if not used for a long time;
- If your device does not work properly, and the repair requirements was confirmed by the manufacturer or dealer. The user should provide a text failure description and packing list, and the packaging should be well cushioned and protected.

Please scan the QR code to download the driver software



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