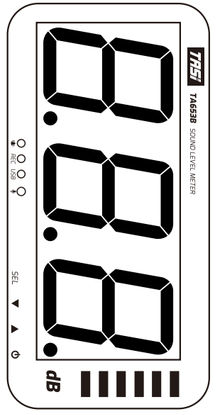
TA653A/B
Sound Level Meter
Instruction manual



Pack #:PB01-0077

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 TASI product.

Summary

TA653A/B is a large screen noise meter, which is used to measure environmental noise. It has large screen display, single word of 4 inches; it can set the upper limit threshold value and overrun alarm function; it has built-in alarm, external alarm output; alarm duration setting; multi fixed mode measurement, suitable for multiple occasions; it can be placed on the desktop, wall hanging, suspend, and 1/4 inch tooth fixed bracket measurement. Such as factory, school, library, office, traffic road, stereo, home, air conditioning, refrigerator and other occasions for noise volume measurement.

Safety matters

Before use，check the instrument and accessories to prevent any damage or abnormal phenomenon，If the instrument

and accessories are damaged or displayed, please do not use the instrument again. Please contact the maintenance center or dealer. Do not store or use in flammable, explosive and strong electromagnetic environment.

Troubleshooting

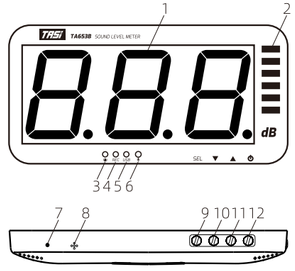
If your instrument does not work properly, the following methods can help you quickly solve general problems, if the failure is still not eliminated, please contact the maintenance center or dealer.

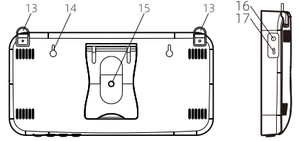
Fault phenomenon	Inspection position and method
No display	Power on not pressed
	The adapter is damaged. Replace the power adapter
	The USB cable is damaged. Replace the USB cable
Unable to communicate with computer	The USB cable is damaged. Replace the USB cable
	If the computer interface is damaged, replace the USB interface
	It is not a Windows system. Please use a computer with Windows system(XP,Win7,Win8,Win10)
	The USB interface of the instrument is damaged.Returned to the factory for maintenance

Description of operation panel

1 Noise display area;
2 Analog bar level display;
3 Alarm indicator;
4 REC data recording indicator;
5 USB communication indicator;
6 Noise collector;
7 The calibration knob is reserved in the factory. The instrument has been calibrated before delivery. Please do not adjust it by yourself;
8 Built in alarm;
9 Select the alarm switch with SEL key,and long press this key to enter the setting mode;
10 ▼down button, short press this key to increase the setting value, long press this key to continuously adjust;
11 ▲up button,short press this key to reduce the setting value, and long press this key to continuously adjust;
12 Press the power button⏻for a short time to start the machine; in the power on state, long press the key to turn off the machine;
13 The center distance between hanging hooks (accessories, which can be

installed and used according to needs) is 280mm;
14 Hang hook holes on the wall with a center spacing of 184mm;
15 1/4 "inch copper nut. Users can fix the instrument on the tripod through the copper nut;
16 The alarm output port is used for external horn. The product is not equipped with a speaker. Please purchase it by yourself. The user is recommended to use 5-12v alarm horn with 3.5mm two or three earphone plugs, Sketch Map;
17 USB power communication interface 5V 1A.





Characteristic

1. General specifications

- Display mode: digital tube display
  display size: 4 inch single word;
- Measurement range: 30 ~ 130dB;
- Accuracy: ± 1.5dB (based on the standard sound source, 94dB@1KHz);
- Frequency response range: 31.5hz ~ 8.5khz;
- Frequency weighting: A (environmental noise) weighting;
- Time response: fast;
- Sampling rate: about twice a second;
- Over range display: "Lo" is displayed at the lowest position, and "Hi" is displayed at the highest position;
- Power supply: 220 V AC input, output 5V 1A adapter;
- Altitude: ≤ 2000m;
- Pollution level: Grade 2;
- Storage temperature: 0 °C ~ 60°C;
- Storage humidity: 45% ~ 80%RH;

- Volume (size): 323x 173x 40mm (L x w x h);
- Weight: about 980G;
- Attachment: one instruction manual, one certificate, one color box, one adapter, one USB communication adapter, one hang. card.

2. Technical indicators

Project	TA653A	TA653B
Measuring range	30dB~130dB	
Accuracy	±1.5dB(based on the standard sound source,94dB@1KHz)	
Frequency response	31.5Hz~8.5KHz	
Frequency weighting	A weighting	
Response time	FAST(fast)	
Sensor type	6mm Capacitive microphone sensor	
Digital display	3 digits	
Resolution ratio	0.1dB(<100dB1dB);(>100dB)	
Alarm mode	Sound + display	
Alarm output	5VHigh level	
Refresh rate	Twice a second	
Storage function	x	✓
Communication with computer	x	✓
Power supply mode	DC5V 1A MicroUSB Interface	
Working temperature and humidity	0~40°C 10%~80%RH	
Storage temperature and humidity	-10~60°C 10%~70%RH	

3. Key function setting

Start up the instrument
- Switch on and off: short press ⏻ key to start up, long press ⏻ key to turn off;
  Automatic power on function: the product will start automatically when powered on. When the manual button is turned off, it needs to be powered on and started.
- manually
  After the instrument is turned on, wait for 2 seconds to enter the measurement state, and the current noise reading value will be displayed on the screen.

Instrument alarm

- Alarm switch
  The alarm function is enabled by default. Short press the SEL key to turn off the alarm, and the red indicator is off. Then short press the SEL key to turn on the alarm. The alarm is on by default. After the alarm switch is set, it will be saved. The value set above will be turned on next time.
- Set the alarm value
  The default alarm value of the instrument
  is 120dB, which can be adjusted by the user.

The operation is as follows:

- In the normal measurement state, long press and hold the SEL key to enter the alarm setting, and the current alarm value will be displayed on the screen;
- Adjust the size of alarm value through ▲/▼key, and long press ▲/▼key to adjust continuously;
- Short press the SEL key to save the alarm value and enter the next item;
- At this time, SEC second time is displayed on the screen. The default value of the instrument is 2 minutes, which can be adjusted by the user;
- Adjust the alarm time by▲/▼ key, and press▲/▼key to adjust continuously;
- Short press the SEL key to save the setting value and enter the normal measurement interface.

Alarm function (sound + display)

When the measured value of the instrument exceeds the set alarm value, the instrument will send out the alarm sound of "di, di, di, di", lock the measurement data, and then flash the measured value. The alarm duration of the instrument is 2 minutes. After the end of 2 minutes or press the SEL key, the instrument will stop the sound, and the

screen will flash for 3 seconds, and the instrument will resume normal measurement.

Note: If the first measured data still exceeds the alarm value after the instrument returns to normal measurement, the instrument will alarm again.

Analog bar level indication

The sixth grid is red	106~130dB
	91~105dB
	76~90dB
The third grid is green	61~75dB
	46~60dB
	30~45dB

Stored data (TA653B only)

The instrument automatically stores data every 2 seconds, and the stored value is the maximum noise value in 2S. The instrument can store continuously for one year. After the time of one year, the instrument will automatically empty the data of half a year ago. Users can export the records through computer software.

Note: when the storage number reaches the maximum storage capacity, the LED is always on.

Clear records(TA653B only)

In the normal measurement state, press SEL and▲/▼keys at the same time to enter the data clearing mode. In the process of data clearing, the screen displays CLR prompt, and automatically returns to the normal measurement mode after clearing.

Restore factory settings

In the normal measurement state, press the SEL and▲keys at the same time to enter the reset. During the reset process, the screen displays RST prompt. After the reset is completed, it will automatically return to the normal measurement mode. Reset is only for the set alarm threshold and alarm duration reset, TA653B time setting can be synchronized through the upper computer to set the current time.

System settings

Alarm duration setting

Year setting

Month setting

Day setting

Hour setting

Minute setting

Second setting

Note: Only TA653B has year / month / day / hour / minute / second setting.

System setting parameters include: alarm value and alarm duration, which can be entered by long press SEL key (refer to instrument alarm).Year, month, day, hour, minute and second can be entered by

pressing the " ▲ " and " ▼ " keys simultaneously for 3 seconds

At the same time, press the " ▲ " and " ▼ " keys for 3 seconds to enter the time setting mode. The setting sequence is: year→month→day→hour→minute→second.

Year setting;

The digital tube hundred digit display red "1" is the year;

The digital tube hundred digit display red "2" is the month;

The digital tube hundred digit display red "3" is the day;

The digital tube hundred digit display red "4" is the hour;

The digital tube hundred digit display red "5" is the minute;

The digital tube hundred digit display red "6" is the second;

Short press "▲" or" ▼" key to adjust the value, long press "▲" or" ▼" for continuous adjustment. After setting, short press "SET" key to enter normal detection mode.

Connecting computer (TA653B only)

The instrument provides computer application programs, which can communicate with the computer through USB, download records, real-time sampling, print icons and data, etc. the software package is Noismeter-

TA653B.rar file. After decompression, open the installation and use folder. Users should refer to the "Installation and Operation Manual"carefully before using.

Appendix A volume reference

0-20dB	So quiet that one can hardly feel it
20-40dB	Quiet, like a whisper
40-60dB	General, ordinary indoor conversation
60-70dB	Noise, nerve damage
70-90dB	It's noisy. The nerve cells are damaged
90-100dB	Increased noise and hearing loss
100-120dB	One can't stand it. One minute can lead to deafness
Above 120dB	Extreme or total deafness

Special statement

Instruments must be handled in accordance with local laws and regulations.

The company reserves the right to update and modify the design specifications and instruction manual content without prior notice.

TASI CE

Product: Sound Level Meter
Model: TA653A/B
Manufacture place: **MADE IN CHINA**

Suzhou TASI Electronics Co.,Ltd.
Add:5th Floor, building 5, No. 317, Mudong Road, Wuzhong District, Suzhou City, Jiangsu Province, China.
Tel:+86-512-68057436
http://www.china-tasi.com
Issue date:11/30/2020