

FNIRSI

FNIRSI- FDM01

DIGITAL DECIBEL METER INSTRUCTION MANUAL



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NOTICE TO USER

- Please read this instruction manual and operating instructions in detail and strictly follow the instructions in the text.
- Please keep this user manual properly.
- Do not use the device in a flammable or explosive environment.
- Used batteries and discarded devices cannot be disposed together with domestic waste, please dispose of them according to relevant national or local laws and regulations.
- If the device has any quality problems or you have doubts about the use of the device, please contact "FNIRSI" online customer service and we will solve it for you in the first time.

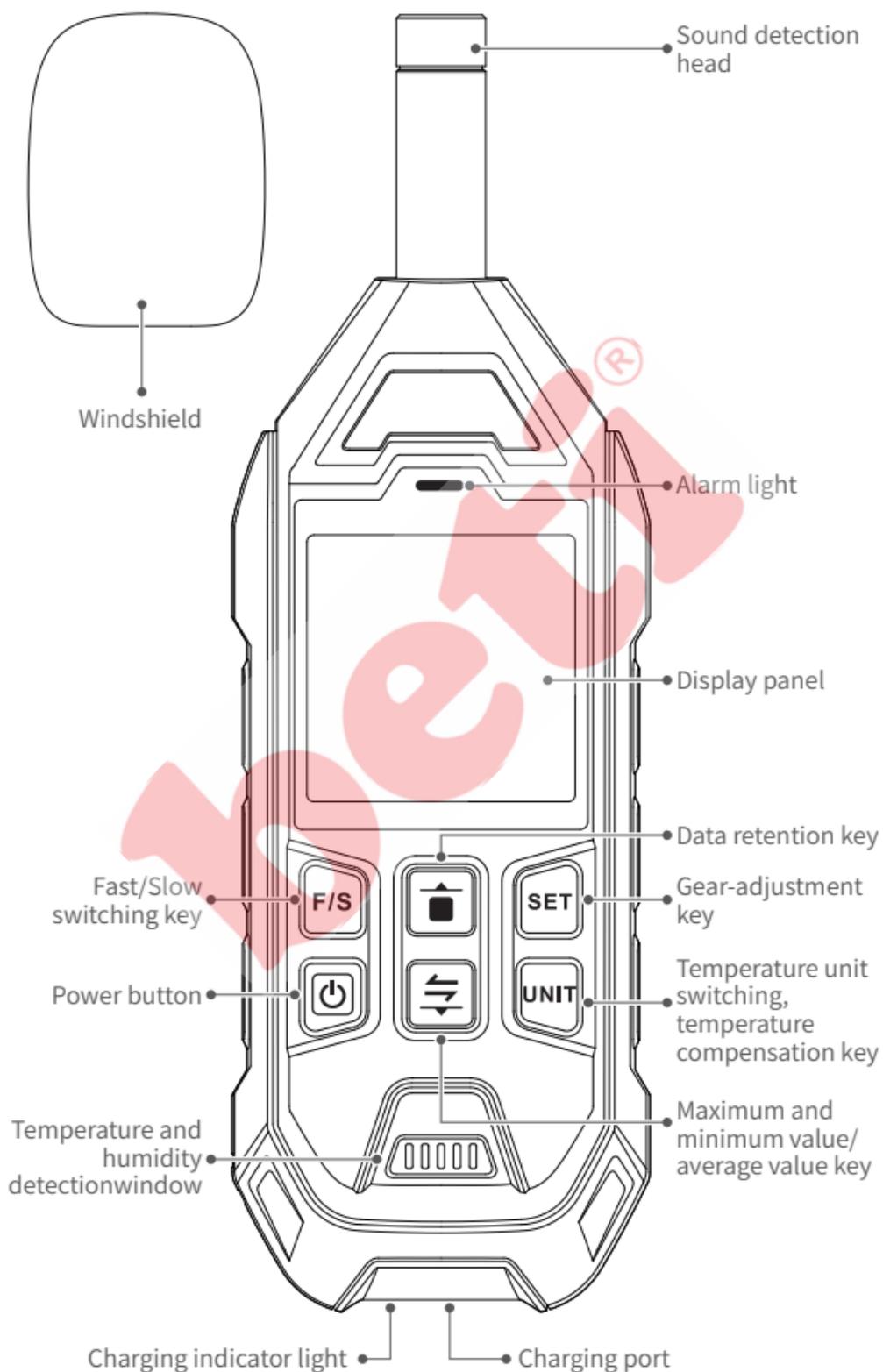
1.FUNCTION DESCRIPTION

- This decibel meter is conformity with International Committee IEC651TYPE2 and the American International Standard ANSIS1.4-TYPE2 standards.
- Measuring range is 30dB-130dB.
- The accuracy can reach $\pm 1.5\text{dB}$.
- A-weighting (simulated human voice) responses characteristics, fast and slow response rate selection.
- The function of "Automatic shutdown in 15 minutes" can be turned on or off.

2.STRUCTURE

- Do not place it in a high temperature and humid place for a long time.
- The ambient noise must be within the range of the sound frequency and range of the equipment before it can be measured normally.
- When measuring noise outdoors, a windshield can be installed on the microphone head to prevent the microphone from being directly blown by the wind and measuring other noises.
- Environmental conditions for use: below 200 meters altitude, relative humidity $\leq 80\%RH$, working environment temperature $0^{\circ}\text{C}-40^{\circ}\text{C}$ for indoor use.

3.STRUCTURE



4.DISPLAY INSTRUCTIONS

①Display Status



Display	Explanation
	Automatic shutdown/open sign
FAST	Fast response
SLOW	Slow response
A	A-weighted
UNDER	Prompt below the minimum detection range
OVER	Prompt when the maximum value exceeded
	Data retention
MIN	Minimum noise value
AVG	Noise value average
MAX	Maximum noise value
S E T	Sensitivity setting
	Battery indicator

②Parameter



Display	Explanation
	Noise value(Noise value unit:dB)
	Noise value scale
	Ambient temperature
	Ambient humidity

5. OPERATION STEPS

- Long press the power button to turn on, short press to turn off, and long press the power button to set the automatic power on and off.
- Short press the data retention key to enter data hold or exit.
- Short press the SET key to enter the detection range setting, any setting within the range of 30-130dB, short press to switch between the minimum value (OVER) and maximum value (OVER), and press the two up and down keys in the middle to add and subtract values. When the measured value is not in the set range, the alarm red indicator light will flash, and the screen will

display "OVER" or "UNDER" symbol prompt.

- Short press the F/S key **F/S** to switch between fast and slow.
- Short press the maximum and minimum key  to enter and switch between maximum, minimum and average value, long press to exit. (Average is averaged over 5 seconds)
- Short press the UNIT key **UNIT** to switch the temperature unit, long press to enter manual temperature compensation, according to the actual standard temperature, press the two up and down keys   in the middle to perform value addition and subtraction compensation, and long press to exit.

6.SPECIFICATION

Accuracy	±1.5dB (Based on standard sound source, 94dB@1KHz)
Frequency range	31.5Hz-8.5KHz
Dynamic range	3.50dB
Measuring range	30-130dB
Frequency weighting characteristics	A weight
Digital display	4 digits, resolution 0.1dB, sampling rate 2 times/second
Dynamic scale display	1 scale represents 2dB, and the sampling rate is 2 times/second
Dynamic scale gear	30-130dB
Overload indication	"OVER" and "UNDER" symbols indication
Dynamic characteristics	FAST (fast) and SLOW (slow) two response speeds.
Microphone	6mm condenser microphone
Maximum value lock	MAX
Battery	600Mah/3.7V lithium battery
Working temperature and humidity	0°C-40°C, 10%-80%RH
Storage temperature and humidity	-10°C-60°C, 10%-70%RH

7.CONTACT US

Any FNIRSI' users with any questions who comes to contact us will have our promise to get a satisfactory solution + an Extra 6-Month Warranty to thank for your support!

By the way, We have created an interesting community, you're welcome to contact FNIRSI staff to join our community.



<http://www.fnirsi.cn/>

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