

Μετρητής στάθμης ήχου FNIRSI FDM-02

FNIRSI · EAN 5905156102354

Machine translation from Polski. In case of doubt the manufacturer's original document prevails.

.. FDM-02

User Manual V1.2 Sound Level Meter

with a digital color display, 20kHz

※Before using the product, please read the user manual carefully and keep it in a safe place.

©

Sunnysoft sro, distributor

.. User Notifications

Please familiarize yourself with this user manual and adhere to the provisions contained herein. Store this manual in a safe place. Used instruments should not be treated as ordinary household waste. Appropriate national and local regulations must be followed for disposal. If there are any quality issues with the device or if you have any questions,

For any questions regarding usage, please contact online customer service

Contact "FNIRSI" service or the manufacturer. We will resolve your issue immediately. Thank you for purchasing this product. To ensure comfort

During use, please follow the guidelines contained in the user manual.

1. Safety Requirements

1.1 Environmental Requirements

Precautions

To prevent equipment failure, avoid high temperatures, open flames, corrosive gases, and humid or dusty environments. Ensure that ventilation openings are not blocked to prevent

overheating. ! Keep away from the following items:

Heaters: Prevent overheating and fire risk. Water sources, chemical solvents: Leaks may cause damage

to the equipment or fire. Devices with strong magnetic fields: Avoid exposure to magnetic fields

disrupting the normal operation of the device. Air conditioning and ventilation devices:

Prevent condensation and short circuits. Waste disposal: Used

batteries and devices should not be thrown away with regular household waste. They must

be disposed of
in accordance with national or local regulations.

2. Product Overview

2.1 Product Introduction

FDM-02 is a stable and reliable digital sound level meter with a color screen, which can measure noise, ambient temperature, and humidity. This user manual contains safety information and warnings; please read its content carefully and strictly follow all safety warnings and instructions.

2.2 Product Operation Diagram

- Settings button
- "Date and Time" icon
- "Brightness" icon
- "Language Settings" icon
- "Language Settings" icon

Power button

OK button

Back button

Up

Left

Right/Settings

Down

2.3 Color Digital Sound Level Meter

1 2 3

2024-09-14 11:25:54 H 1. Date and time: year, month, day,
hour. Sound

2. Data storage: Press the power button briefly

to activate the data storage function HOLDS. 5 3. Battery indicator

FAST dB A 4. Noise value: This area

displays the measured noise level

of the device. 5. Noise unit

6. Temperature value: This area displays the temperature measured by the device in real-

time. 7. Noise level: If no value is displayed, the message "Ready" will appear below. The

threshold value is displayed as "Normal", above the threshold value it is displayed as "High"

or "Low". 8. Humidity value: This area displays the humidity measured by the device in real-time.

Key Action Function Description

Long press

Power on/off

Short press Data hold function HOLD

Enter settings interface

Long press

Enter curve page, curve page

Short press

updates every 0.5 seconds

Switching between frequency weighting

Short press

AC characteristics

Switching between

Short press

fast/slow time weighting

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2.4 General Settings

General

Set alarm: Use the left or

right-click to select whether you want to

turn on the indicator light, vibration, or buzzer. Threshold

Buzzer here only turns on/off the

alarm sound.

Languages

Theme

Threshold settings: Select using the up or down buttons the upper or lower alarm option and then press the OK button to enter four-level navigation and input detailed numerical data.

Setting each digit, click or press and hold the up or down buttons to adjust the threshold value, and the alarm will respond and start recording according to the threshold value.

Language change: Use the left or right button to select Chinese or English. Style change: Use the left or right button to select dark/light mode.

2.5 System Settings

System

Date and time: Select any direction, press the OK button to enter, and then click Time

Setting or press and hold the up or down button to adjust the value. Sleep

Sleep mode: Select using the left or right button ON/OFF and enable sleep mode. The left or right button is used to adjust the brightness percentage bar in sleep mode. Use the left/right buttons to adjust sleep or wake values. Auto power off. Sleep mode will reduce screen brightness and power consumption. The device exits sleep mode upon detecting motion.

Brightness adjustment: Click the progress bar or press and hold the left or right button to adjust brightness. Restore factory settings: Use the left or right button to select whether you want to restore factory settings and press OK to confirm.

2.6 Alarm Log Page

Alarm Log

Recording alarms

Record

Num Time Type time and type of events that will occur

01 2024/06/10 07:30 Low upper or lower threshold values,

2024/06/10 07:30 Low up to thirty records. After

03 2024/06/10 07:30 Low previous records will be exceeded

2024/06/10 07:30 Low deleted and new will be saved

2024/06/10 07:30 Low only when the alarm level rises. Use the up and down buttons to scroll.

3. TECHNICAL DATA

3.1 Device Parameters

Parameters

Specifications

2.0-inch color display

Screen

Accuracy

1.5 dB at 1 kHz

1 kHz

Frequency response

30dB~130dB

Measurement range

Frequency weighting

A and C

Characteristic

Fast (FAST) 125 milliseconds

Time weighting

Characteristic

Slow (SLOW) 1 second

Display

4 digits, resolution 0.1 dB

Fast 0.5 times per second

Value update

Slow 1 time per second

63x28x183 mm

Product dimensions

Product weight 213 g

4. User Manual

4.1 POWER ON

Press and hold the power button to turn on the device, wait for it to power on. The system will load, and then the main interface of the digital color sound level meter will appear.

4.2 Language Settings

Press and hold the right button (settings) on the main interface to enter the system menu. Press the selection button to go to General Settings. Press the OK button to enter. Press the selection button to go to Language Settings, and then press the OK button to enable/disable language settings. Use the left or right button to select. Chinese and English.

4.3 Setting Noise Threshold

Noise threshold setting:

Press and hold the right button (settings) on the main interface to enter the system menu, click the selection button to choose general settings, click the confirmation button OK to enter general settings, click the selection button to enter threshold settings, and then click OK to enter threshold settings, use the up or down keys to select the upper or lower value reporting option, and then press OK to proceed to four-level navigation, input detailed settings for each digit, click or press and hold the up or down key to set the threshold value. Other function settings in General Settings: The selection and opening of the appropriate function is done more or less the same way as in the two points above navigation after operations, and the description of individual steps has been omitted.

4.4 Date/Time/Brightness Settings

Setting date and time:

To enter the main interface, press and hold the right button (settings).

system menu, click the selection button and go to system settings, Click OK to enter, click the Select button and go to the Date and time menu, then click OK to enter the Date and Time menu, select the date and time you want to edit, press the OK button to enter the digital setting, click the up or down button to adjust the value, and then click the Enter button to store. Brightness settings:

Press and hold the right button (settings) in the main interface to enter the system menu. Click the selection button to enter the system settings. Click the OK button to enter. Click the selection button to enter the brightness settings. Then click the OK button to enter the brightness settings. Use the left or right button to adjust the brightness. In real-time, click the Enter key to save changes. Other functional changes to system settings: Select to open the appropriate function in the same way as in the case of the two previous points of operational navigation, and the description of individual steps has been omitted. 5. Quick Start

5.1 Quick Measurement

- Turn on the digital color noise meter, place the device in the measured area and direct the lamp at the light source to achieve a good measurement effect.
- Preview the lighting, temperature, humidity, etc. in real-time on the main screen.
- Briefly press the power button to access the HOLDS data. stop.
- Click the left or right button to switch the curve page, display data, analyze data, and record data.

5.2 Firmware Update

- Turn off the device and press the right button and the power button simultaneously. The bootloader interface will appear. Connect the USB Type-C cable to the computer and open the bootloader interface to update the firmware.
- After the bootloader starts and the computer recognizes the USB drive, copy the firmware file directly to the USB drive.
- After one minute of inactivity in the bootloader interface, the existing firmware will automatically start.

6. TROUBLESHOOTING

6.1 Cannot Start the System

Possible causes:

- The battery is discharged.
- The battery contact is loose or damaged. Solution:
- Check the battery charge level and recharge it if it is low.
- If the battery does not charge or the device still does not turn on, try reinstalling or replacing the battery.

6.2 Screen Not Displaying

Possible causes:

- The screen backlight is off.
- Display hardware failure.
- Malfunction of the system software.

Solution:

- Check and adjust the backlight brightness according to the user manual.
- Try restarting the device to ensure the system returns to normal mode.
- If the image still does not display correctly, it may indicate that the display requires repair or replacement.

7. Maintenance

Cleaning the external part of the device:

Frequency: Clean once a month, depending on the usage environment. How to use: Gently wipe the surface of the device with a soft cloth. To avoid damaging the casing or screen, do not use cleaning agents containing

chemicals, especially those containing alcohol or strong acids or bases. Note:

- Regularly clean dust around the microphone and buttons to keep the device in good condition.
- Ensure that no liquid, dust, or dirt gets into the device interface.

Check the battery and power: Battery maintenance:

Regularly check the condition of the built-in battery and the device. Do not allow the battery to

completely discharge. It is recommended to charge regularly and not to leave the device unused for an extended period. Charging specification: Use the original charger for charging, avoid overcharging or excessive

discharging, and ensure that the battery has the correct operating voltage. Battery

replacement: If the battery shows signs of excessive degradation (for example, does not charge

normally or discharges exceptionally quickly), it should be replaced as soon as possible.

Storage and transport:

Storage conditions: The device should be stored in a dry and ventilated place, avoiding high temperatures, high humidity, and sudden temperature changes. Do not expose it to

direct sunlight. Transporting: During use, especially when transporting, care should be taken not to

drop the device. It is recommended to use a protective case or a special bag.

Software Update:

- Regularly check if new firmware is available for your device. The latest firmware may fix known bugs and improve device performance.
- During the update, ensure that each step is correct, use official firmware files, and avoid power outages or other disruptions.

Factory Reset:

- If the device is not functioning properly or there is no issue, try restoring factory settings. After restoring settings, the device will be erased and returned to its original state. • Instructions for restoring factory settings can be found in the user manual or by contacting the manufacturer's customer service.

8. Contact Us

All FNIRSI users who contact us with questions have our promise of a satisfactory solution + an additional 6 months warranty as a thank you for your support! By the way, we have created an interesting community, contact FNIRSI staff and join our community.

SHENZHEN FNIRSI TECHNOLOGY CO., LTD.

Website www.fnirsi.com

Email business@fnirsi.com (Company)

Email service@fnirsi.com (Device Support)

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

This document is a translation of the original user manual created by the manufacturer.

Detailed information about the distributor/manufacturer warranty conditions is available on the website <https://serwis.innpro.pl/gwarancja>.

The product should be regularly maintained (cleaned) by the user or through specialized service points at the user's cost and responsibility. In the absence of information about necessary periodic or service maintenance actions in the user manual, the physical condition of the product should be assessed regularly, at least once a week, against that of a physically new product. If any deviation is detected or noted, urgent maintenance (cleaning) or service steps should be taken. Failure to properly maintain (clean) and respond upon detection of a deviation may lead to permanent damage to the product. The warranty provider is not responsible for damages resulting from neglect.

Warnings and Safety Information

All information regarding operation and use can be found in the user manual or on the product label. Before starting to use the products, familiarize yourself with its content and follow the instructions contained therein. Also, review the following information before use:

User Safety

Use measuring tools according to their intended purpose. Do not use measuring tools for tasks for which they were not designed to avoid damage or incorrect measurement results. Always ensure that the tool is in good working condition before use. Damaged tools, such as

cracked housings or broken displays, may lead to incorrect measurements or risk of accidents. Regularly calibrate measuring tools to ensure their accuracy and reliability of measurements. Incorrectly calibrated devices may lead to erroneous results.

Precautions

Use appropriate eye protection, especially when working with measuring tools that may emit radiation. Keep measuring tools away from children and untrained individuals to prevent accidental damage or misuse. Avoid using measuring tools in extreme temperature, humidity conditions, or in an atmosphere with high dust concentration, which may affect their accuracy and functionality. When working with measuring tools, exercise caution to avoid damaging delicate measuring components (e.g., sensors, probes).

Safe Use

Always ensure that the measuring tool is properly set up and secured to avoid measurement errors or damage. Use measuring tools only in designated areas that provide adequate stability and minimize the risk of accidents, such as slippery or uneven surfaces. Never take measurements on live components or in conditions that may pose a safety hazard.

Usage Guidelines in Appropriate Conditions

Store measuring tools in a dry, cool place, away from moisture and direct sunlight, which may damage the devices or affect their accuracy. When using measuring tools, ensure they are well seated and not exposed to shocks or impacts that may lead to their damage.

Avoid using measuring tools in extreme conditions, such as heavy vibrations, hot surfaces, dust, or moisture, unless the tool is designed for such conditions by the manufacturer.

Maintenance Instructions

Regularly check the condition of measuring tools, especially measuring elements (e.g., sensors, probes, displays) and batteries. Follow the cleaning instructions provided by the manufacturer. Use appropriate cleaning materials (e.g., soft cloths) to avoid damaging delicate components. Regularly calibrate measuring tools according to the manufacturer's recommendations to maintain measurement accuracy.

Safe Disposal
Used or damaged measuring tools should be disposed of in accordance with applicable environmental protection and electronic recycling regulations. Do not throw measuring tools into regular waste containers, as they may contain elements harmful to the environment. Contact local authorities or recycling companies for information on proper disposal of used measuring tools.

Compliance Statement

The products have been designed in accordance with the safety requirements specified in

Regulation (EU) 2023/988 on general product safety, ensuring their compliance with applicable safety and health standards for users. Safety Measures

Before charging, check that the device contacts are clean. Never leave the device unattended while in use and charging. Ensure that you can quickly disconnect the device from the power source in an emergency. Never expose the device to high temperatures. Charge the device in a dry, well-ventilated area away from flammable materials, maintaining a minimum distance of 1m from other objects. Never cover the device while charging. Never use a power supply, charging station, cables, etc., without the manufacturer's recommendation and certification. Take care of your property; the device is equipped with cells that are difficult to extinguish, so equip yourself with a fire blanket. LI-ION Battery

The device is equipped with a LI ION (lithium-ion) battery, which ages over time and use due to its physical and chemical structure. The manufacturer specifies the maximum operating time of the device under laboratory conditions, where optimal working conditions for the device exist, and the battery is new and fully charged. Actual operating time may differ from the declared one in the offer and this is not a defect of the device but a feature of the product. To maintain maximum battery life, it is not recommended to discharge it below 3.18V or 15% of total capacity. Lower values, such as 2.5V for the cell, permanently damage it and this is not covered by warranty. If the battery or the entire device is not used for more than one month, the battery should be charged to 50% and its charge level should be checked periodically every two months. Store the battery and device in a dry place, away from sunlight and negative temperatures. LI-PO Battery

The device is equipped with a LI PO (lithium-polymer) battery, which ages over time and use due to its physical and chemical structure. The manufacturer specifies the maximum operating time of the device under laboratory conditions, where optimal working conditions for the device exist, and the battery is new and fully charged. Actual operating time may differ from the declared one in the offer and this is not a defect of the device but a feature of the product. To maintain maximum battery life, it is not recommended to discharge it below 3.5V or 5% of total capacity. Lower values, such as 3.2V for the cell, permanently damage it and this is not covered by warranty. If the battery or the entire device is not used for more than one month, the battery should be charged to 50% and its charge level should be checked periodically every two months. Store the battery and device in a dry place, away from sunlight and negative temperatures. Environmental Protection

Used electronic equipment marked in accordance with the European Union directive must not be placed together with other municipal waste. It is subject to selective collection and recycling at designated points. By ensuring its proper disposal, you prevent potential

negative consequences for the natural environment and human health. The system for collecting used equipment complies with locally applicable environmental protection regulations regarding waste disposal. Detailed information on this can be obtained from the municipal office, waste management facility, or the store where the product was purchased. The product meets the requirements of the so-called directives.

New Approach of the European Union (EU) regarding issues related to user safety, health protection, and environmental protection, defining hazards that should be detected and eliminated. Importer:

INNPRO Robert Błędowski sp. z o.o. Battery information:

Rudzka 65c Category: Portable battery

44-200 Rybnik, Poland Type: Li-Ion

tel. +48 533 234 303 Net weight: 0.0275 kg

hurt@innpro.pl Capacity: 1500 mAh

www.innpro.pl Power: 0.0055 kWh

Exceeded permissible content of

Manufacturer:

cadmium (0.002%) or lead (0.004%): no

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Download the user manual, application, and software