FNIRSI

FAM-02

DIGITAL ANEMOMETER USER MANUAL V1.2



※Please read this instruction manual carefully before using the product and keep it properly.

USER NOTICE

①Please read this manual and the operating instructions thoroughly, and ensure compliance with the provisions outlined in the document.

②Please keep this user manual in a safe place.

③Disposed instruments should not be treated as regular household waste. Please follow the relevant national or local laws and regulations for disposal.

④If the instrument experiences any quality issues or if you have any questions regarding its use, please contact "FNIRSI" online customer service or the manufacturer. We will resolve your issue promptly.

⑤Thank you for purchasing this product. To ensure convenient use, please follow the instructions in the manual during operation.

1.SAFETY REQUIREMENTS

1.1 Environmental Requirements

⃠ Precautions

①Avoid high temperatures, open flames, corrosive gases, humid or dusty environments to prevent equipment failure.

②Hold the device perpendicular to the wind direction to ensure wind volume measurement.

③Ensure the air intake is not blocked to avoid affecting the measurement values.

⚠ Keep away from the following items

①Heating devices: To avoid overheating or fire risks.

②Water sources, chemicals, solvents: Leaks may damage the equipment or cause fires.

③Strong magnetic devices: To prevent magnetic fields from interfering with the normal operation of the device.

♻ Waste Disposal

Do not dispose of used batteries or equipment with household waste; handle it according to national or local regulations.

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2.PRODUCT OVERVIEW

2.1 Product Introduction

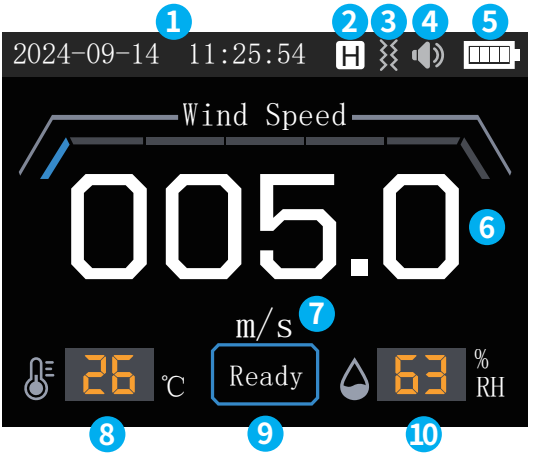
FAM-02 is a digital anemometer, a professional meter for measuring wind speed, mainly used in various occasions such as home, office, car fan, air conditioner, exhaust fan, outdoor environment, etc. It uses a 2.0-inch high-definition color screen, supports ambient temperature and humidity measurement, five units of wind speed measurement, and multiple themes.

2.2 Product operation diagram



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2.3 Digital Anemomete



①**Datetime field:** Year, month, day, time.

②**Data Hold:** Short press the Power button ⏻ to activate the HOLDS data hold function.

③**Vibration function**

④**Buzzer Alarm:** Indicates whether the alarm function is activated.

⑤**Battery Level:** Indicates system battery level.

⑥**Wind speed value:** This area displays the wind speed value measured by the device.

⑦**Wind Speed Unit.**

⑧**Temperature Value:** This area displays the temperature value measured by the device in real-time.

⑨**Wind Force Level:** Displays "Ready" when no value, "Normal" when below the threshold, and "High" or "Low" alarm when above the threshold.

⑩**This area displays the humidity measured by the device in real-time.**

Key	Operation	Function description
⏻	Long Press	Switch on/off
⏻	Short Press	HOLD data hold function
▶	Long Press	Enter settings interface
◀▶	Short Press	Enter curve page, the curve page updates every 0.5S

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2.4 General Settings



Alarm settings: Use the left or right key to select whether to turn on the indicator light, vibrator, or buzzer. The buzzer here only turns on/off the alarm sound.

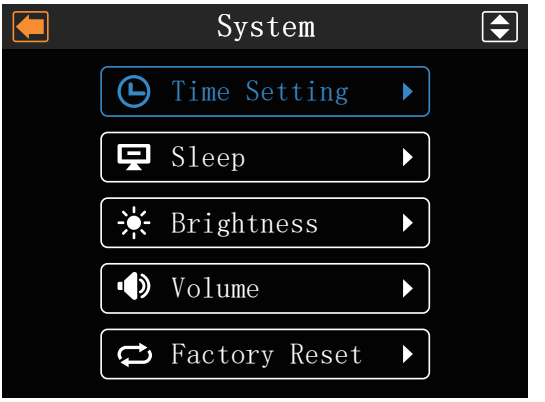
Threshold settings: Use the up or down key to select the high or low alarm option, then press OK to enter the four-level navigation, enter the detailed numerical adjustment of each digit, click or long press the up or down key to adjust the threshold, and the alarm will respond and record according to the threshold.

Language switch: Use the left or right key to select Chinese and English.

Unit switch: Use the up or down key to adjust the unit, no need to press the OK key.

Style switch: Use the left or right keys to select dark/light mode

2.5 System Settings



Time Setting: Select any direction, press the OK button to enter, then long press the up/down buttons to adjust the values.

Sleep Mode:

① Left or right key to select ON/OFF to turn on the sleep.

② Left or right key to adjust percentage bar for the sleep brightness.

③ Use the left/right buttons to adjust the values for entering sleep mode or automatic shutdown. Sleep mode will reduce screen brightness and power consumption. The device will exit sleep mode when motion is detected.

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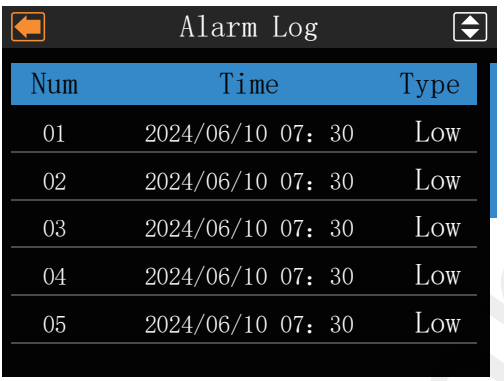
Brightness setting: Click the progress bar or long press the left or right key to adjust the brightness.

Volume setting:

① Progress bar, left or right key to adjust the volume ② ON/OFF The left or right key selects whether to turn on the volume. The volume here is for the global sound switch and is not valid for the alarm sound.

Restore factory settings: Use the left or right key to select whether to restore the factory settings, and the OK to confirm.

2.6 Technical Specifications



Alarm Record: Records the time and type of events that exceed the high or low thresholds, up to a maximum of thirty entries. Once exceeded, the previous records will be cleared, and new ones will be recorded. Only records when the alarm level increases. Use the up and down buttons to browse.

3.TECHNICAL SPECIFICATIONS

3.1 Model Parameters

Parameters	Specifications
Screen	2.0-inch color screen
Backlight	Brightness adjustable
Power supply	TYPE-C (5V/1A)
Battery	1500mAh
Language	Chinese/English
Product size	≈63x28x193mm
Product weight	≈199g

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3.2 Wind speed measurement parameters

Wind speed (unit)	Measurement range	Resolution
m/s	0.0~30.0	0.1m/s
km/h	0.0~108	0.1km/h
ft/s	0.0~98.5	1ft/s
Knots	0.0~58.3	0.1Knots
mil/h	0.0~67.1	0.1mil/h

3.3 Wind temperature and humidity parameters

Wind temperature measurement	Measurement range	Resolution
Temperature range	-20~60°C	
Temperature accuracy	0~45°C	±1°C
	Others Temperature	±2°C
Humidity range	0~99%RH	
Humidity accuracy	20~80%RH	±5%RH
	Others Humidity	±6%RH

4.OPERATING INSTRUCTIONS

4.1 Boot

Long press the power button ⏻ to turn on, wait for the system to load, and enter the digital anemometer main interface.

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4.2 Language settings

Long press the right button (settings) on the main interface to enter the system menu, press the selection button and move to General settings, press OK to enter, press the selection button and move to Language Settings , then press OK to enter Language Settings , ON/OFF left or right button to select Chinese and English.

4.3 Adjust wind speed threshold and wind speed unit

Wind Speed Threshold Adjustment:

Press and hold the right button (settings) on the main interface to enter the system menu, click the selection button to select general settings, click the OK confirmation button to enter general settings, click the selection button and move to threshold settings, and then click OK to enter threshold settings, use the up or down key to select high or low report option, and then press OK to enter the four-level navigation, enter the detailed value adjustment of each digit, click or long press the up or down key to adjust the threshold.

Wind Speed Unit Adjustment:

Press and hold the right button (settings) on the main interface to enter the system menu, click the selection button and move to general settings, click OK to enter general settings, click the selection button and move to unit switching, and then click OK to enter unit switching, use the up or down key to select illumination units, and you can directly click the return key without clicking the confirmation key to save.

Other function adjustment of General settings:

The corresponding function selection and opening are roughly the same as the above two points of operation navigation, and the step description is omitted.

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4.4 Adjust date/time/brightness

Date and time settings:

Press and hold the right button (settings) on the main interface to enter the system menu, click the selection button and move to system settings, click OK to enter ,click the selection button and move to Date and Time , then click OK to enter Date and Time , select the date and time to be adjusted, then press OK to enter digital adjustment, click the up or down key to adjust the value, and click the return key to save.

Brightness adjustment:

Press and hold the right button (settings) on the main interface to enter the system menu, click the selection button and move to system settings, click OK to enter, click the selection button and move to brightness settings , then click OK to enter , use the left or right key to adjust the brightness in real time, and click the return key to save.

Other function adjustments of system settings:

The corresponding function selection and opening are roughly the same as the above two points of operation navigation, and the step description is omitted.

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5.QUICK START GUIDE

5.1 Rapid measurement

- Turn on the digital anemometer, place the device point in the area to be measured, and aim at the light source for good measurement effect.
- View the real-time illuminance, temperature, humidity, etc. on the main screen interface.
- Short press the power switch to achieve the HOLDS data retention.
- Click the left or right key to switch the curve page, visualize the data, analyze the data and record the data.

5.2 Upgrade firmware

- Turn off the device, press the right button and the power button at the same time, and the device will pop up the Bootloader interface. Insert the USB Type-c data cable to connect the computer and enter the Bootloader interface for firmware upgrade.
- After entering the Bootloader and the computer recognizes the U disk, copy the firmware file directly to the U disk.
- After one minute of no operation in the Bootloader interface, the existing firmware will be automatically run.

6.TROUBLESHOOTING

6.1 Unable to boot

Possible causes:

- Battery exhausted.
- Loose or damaged battery connection

Solution:

- Check battery charge and charge if low
- If battery fails to charge or device still does not power on, try reinstalling or replacing the battery.

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6.2 Screen does not display

Possible causes:

●The screen backlight is off. ●Display hardware malfunction.

●System software abnormality

Solution:

●Check and adjust the backlight brightness settings according to the manual.

●Try restarting the device to ensure the system returns to normal.

●If the screen still does not display properly, the display may need to be repaired or replaced.

7.MAINTENANCE

Cleaning the outside of the device:

Frequency: Clean once a month, depending on the usage environment.

Method: Use a soft cloth to gently wipe the surface of the device. Avoid using chemical cleaners, especially those containing alcohol or strong acids or alkalis, to avoid damaging the casing or screen.

Note:

●Regularly clean the dust around the fan and buttons to keep the device in good condition.

●Ensure that no liquid, dust or debris enters the device interface.

Check the battery and power:

Battery maintenance: For device built-in batteries, check the health of the battery regularly. Avoid complete battery discharge. It is recommended to charge regularly and avoid not using the device for a long time.

Charging specifications: Use the official charger to charge, avoid overcharging or over-discharging, and ensure that the battery is in the appropriate operating voltage range.

Battery replacement: If the battery shows excessive attenuation (such as failure to charge normally or extremely fast discharge), it should be replaced in time

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Storage and Carrying:

Storage environment: The device should be stored in a dry and ventilated environment, avoiding high temperature, high humidity or drastic temperature changes. Avoid placing it in direct sunlight.

Carrying: Be careful to avoid falling when using, especially when carrying. It is recommended to use a protective case or a special bag for carrying.

Software Update:

●Regularly check whether the device has new firmware to update. The latest firmware can fix known bugs and improve device performance.

●When updating, make sure the operation steps are correct, use the officially released firmware files, and avoid power outages or other interference.

Restore factory settings:

●If the device is abnormal or does not work properly, try to restore the factory settings. After restoring the settings, the device will clear all custom configurations and return to the initial state.

●For methods to restore factory settings, please refer to the user manual or contact the manufacturer's customer service

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