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6-8 Duty cycle

0.1%~99.9%: $\pm (2.0\% \text{ of rdg} + 2 \text{ digits})$, Frequency lower than 10kHz

-- Sensitivity: sine wave 0.6V rms

-- Overload protection: 250V DC or AC rms

6-9 Temperature

Range	Accuracy	Resolution
℃	-20~150℃ $\pm (3℃ + 1 \text{ digit})$	1℃
	150~1000℃ $\pm (3\% \text{ of rdg} + 2 \text{ digits})$	
℉	-4~302℉ $\pm (5℉ + 2 \text{ digits})$	1℉
	302~1832℉ $\pm (3\% \text{ of rdg} + 3 \text{ digits})$	

-- NiCr-NiSi K-type sensor

-- Overload protection: 250V DC or AC rms

6-10 Diode and Audible continuity test

Range	Description	Test Condition
	Display read approximately forward voltage of diode	Forward DC current approx. 1.5mA Reversed DC voltage approx. 4V
	Built-in buzzer sounds if resistance is less than 50Ω	Open circuit voltage approx. 2V

Overload protection: 250V DC or AC rms

7. OPERATING INSTRUCTIONS

7-1 Attention before operation

7-1-1 Check battery. When the battery voltage drop below proper operation range, the symbol will appear on the LCD display and the battery need to be changed.

7-1-2 Pay attention to the besides the input jack which shows that the input voltage or current should be within the specified value.

7-1-3 The range switch should be positioned to desired range for measurement before operation.

7-2 Measuring DC & AC Voltage

7-2-1 Connect the black test lead to **COM** jack and the red to **VΩHzT+** jack.

7-2-2 Set the rotary switch at the desired "**V** range position, it shows symbol for testing DC voltage, if you want to test AC voltage, push "**SELECT**" button switch.

7-2-3 Connect test leads across the source or load under measurement.

7-2-4 You can get reading from LCD. The polarity of the red lead connection will be indicated along with the DC voltage value.

NOTE:

a) means you can't input the voltage more than 1000V DC or 750V AC, it's possible to show higher voltage, but it may destroy the inner circuit or pose a shock.

b) Be cautious against shock when measuring high Voltage.

7-3 Measuring DC Current

7-3-1 Set the rotary switch at the desired "**400A** " or "**1000A** " position.

7-3-2 Press the "**REL**" the display show "0".

Note: As the jaw core may remain some magnetic force after using for a while. If the display can not reach "0" When press the "**REL**", please take following process to correct it:

A. To change the direction of the measured DC current.

B. Open the JAWS several times.

7-3-3 Open the clamp by pressing the jaw-opening handle and insert the cable (**one cable only**) to be measured into the jaw.

7-3-4 Close the clamp and get the reading from the LCD panel. The arrow in the Jaw indicates the direction of positive current flow (positive to negative).

Note:

a) Before this measurement, disconnect the test lead with the meter for safety.

b) In same occasion that the reading is hard to read, push the **HOLD** button and read the result later.

7-4 Measuring AC Current

7-4-1 Set the rotary switch at the desired "**400A** " or "**1000A** " position.

7-4-2 Open the clamp by pressing the jaw-opening handle and insert the cable (**one cable only**) to be measured into the jaw.

7-4-3 Close the clamp and get the reading from the LCD panel.

Note:

a) Before this measurement, disconnect the test lead with the meter for safety.

b) In same occasion that the reading is hard to read, push the **HOLD** button and read the result later.

7-5 Measuring Resistance

7-5-1 Connect the black test lead to **COM** jack and the red to **VΩHzT+** jack.

7-5-2 Set the rotary switch at the desired "**Ω** " range position.

7-5-3 Connect test leads across the resistance under measurement.

7-5-4 You can get reading from LCD.

NOTE: Max. input overload: 250V rms < 10sec

1. For measuring resistance above 1MΩ, the meter may take a few seconds to get stable reading.

2. When the input is not connected, i.e. at open circuit, the figure 'OL' will be

displayed for the over-range condition.

3. When checking in-circuit resistance, be sure the circuit under test has all power removed and that all capacitors have been discharged fully.

7-6 Measuring Capacitance

7-6-1 Connect the black test lead to **COM** jack and the red to **VΩHzT+** jack.

7-6-2 Set the rotary switch at the desired "**Ω** " range position, push "**SELECT**" to choose **Capacitance** measurement.

7-6-3 Connect test leads across the capacitance under measurement.

7-6-4 You can get reading from LCD.

NOTE: Max. input overload: 250V rms < 10sec

1. Capacitors should be discharged before being tested.

2. When testing large capacitance, it will take longer time before the final indication (For 200uF range, it will take about 10 seconds).

7-7 Measuring Frequency & Duty cycle

7-7-1 Connect the black test lead to **COM** jack and the red to **VΩHzT+** jack.

7-7-2 Set the rotary switch at the desired "**Hz**" range position.

7-7-3 Push "**Hz/Duty**" key to choose **Frequency** or **Duty cycle** test.

7-7-4 Connect the probe across the source or load under measurement.

7-7-5 You can get reading from LCD.

7-8 Measuring Temperature

7-8-1 Connect the black banana plug of the sensor to **COM** jack and the red banana plug to the **VΩHzT+** jack.

7-8-2 Set the rotary switch at the desired "**℃/℉**" range position, push "**SELECT**" to choose **℃** or **℉** measurement.

7-8-3 Put the sensor probe into the temperature field under measurement.

7-8-4 You can get reading from LCD.

NOTE:

1. Please don't change the thermocouple at will, otherwise we can't guarantee to measure accuracy.

2. Please don't importing the voltage in the temperature function.

7-9 Diode & Audible continuity Testing

7-9-1 Connect the black test lead to **COM** jack and the red to **VΩHzT+** jack.

7-9-2 Set the rotary switch at the desired "**Ω** " range position, push "**SELECT**" to choose **Diode** or **Audible continuity** measurement.

7-9-3 On **diode** range, connect the test leads across the diode under measurement, display shows the approx. forward voltage of this diode.

7-9-4 On **Audible continuity** range, connect the test leads to two point of circuit, if the resistance is lower than approx. 50Ω, the buzzer sounds.

NOTE: Make sure the power is cut off and all capacitors need to be discharged under this measurement.

7-10 Connect to mobile phone APP

The meter has serial data output function. It can be connected with mobile phone by Bluetooth, so the measured data can be recorded, analyzed, and processed by mobile phone APP. Before use this function, you need install the mobile phone APP "Intelligent Meter" by scan the QR code.

It includes the "Intelligent Meter" APP packages for download and detailed installation and usage instructions.

NOTE: The mobile phone APP can be installed in iphone 4S iOS 7.0 or android 4.30 system and up.

8. Battery replacement

8-1 When the battery voltage drop below proper operation range the symbol will appear on the LCD display and the battery need to be changed.

8-2 Before changing the battery, set the selector switch to "**OFF**" position and remove the test leads from the terminals. Open the cover of the battery cabinet by a screwdriver.

8-3 Replace the old battery with the same type battery (9V battery 6F22 or NEDA 1604).

8-4 Close the cover of the battery cabinet and fasten the screw.

9. Maintenance

9-1 You must replace the test leads if the lead is exposed, and should adopt the leads with the same specifications as origin.

9-2 Do not use the meter before the back cover is properly closed and screw secured. Upon any abnormality, stop operation immediately and send the meter for maintenance.

9-3 When take current measurement, keep the cable at the center of the clamp will get more accurate test result.

9-4 Repairs or servicing not covered in this manual should only by qualified personal.

9-5 Periodically wipe the case with a dry cloth and detergent. Do not use abrasives or solvents on this instruments.

9-6 Please take out the battery when not using for a long time.

10. Accessories

[1] Test Leads: electric rating 1000V 10A

[2] "K" type thermocouple sensor probe

[3] Operator's Manual

Above picture and content just for your reference. Please be subject to the actual products if anything different or updated. Please pardon for not informing in advance.

Intelligent Meter Operation manual Summary

Intelligent Meter is a comprehensive intelligent hardware management platform. Through Intelligent Meter App, you can complete the convenient between mobile phones and intelligent hardware, achieve the interconnection and intercommunication between devices and users. Intelligent Meter supports multiple types of devices, Such as intelligent instrument, electrical instrument, anemometer and infrared thermometer.

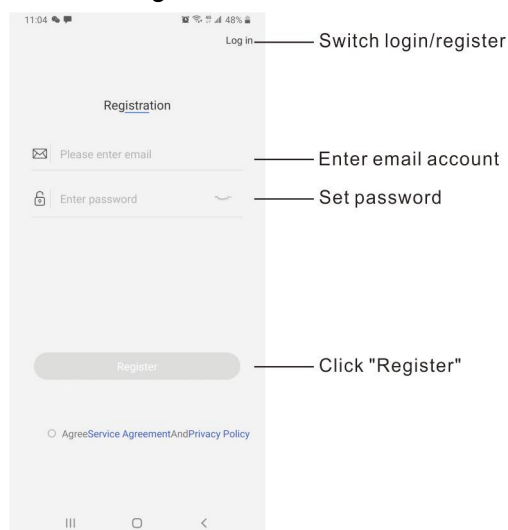
APP download and installation

Scan the below QR code to download directly, or search for "Intelligent Meter" in the APP Store, Google Play download and install the "Intelligent Meter".



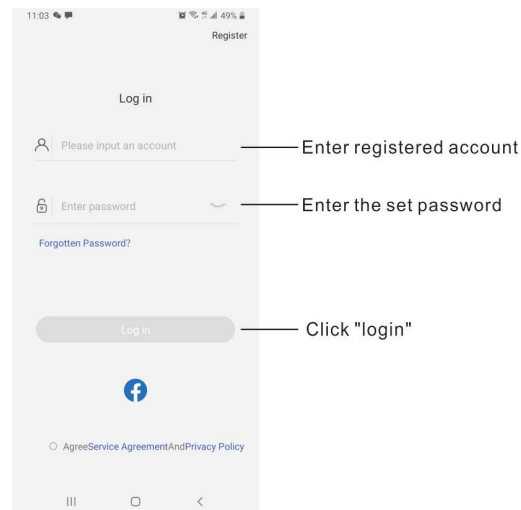
Account registration

To register an email account, enter the email number and password, and click Register. This account is used for future login;



Account login

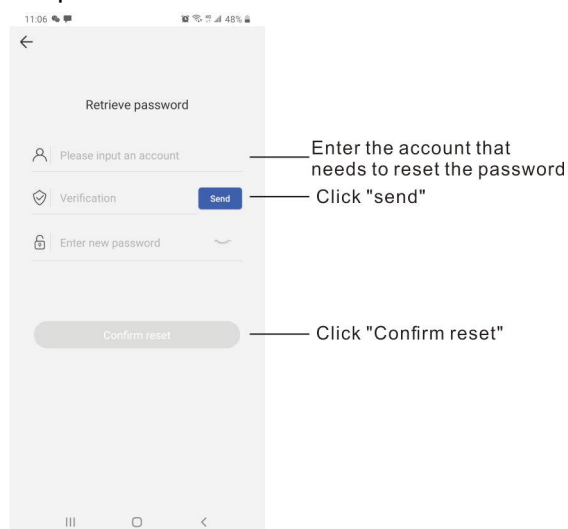
Enter the account and password and click login



Retrieve password

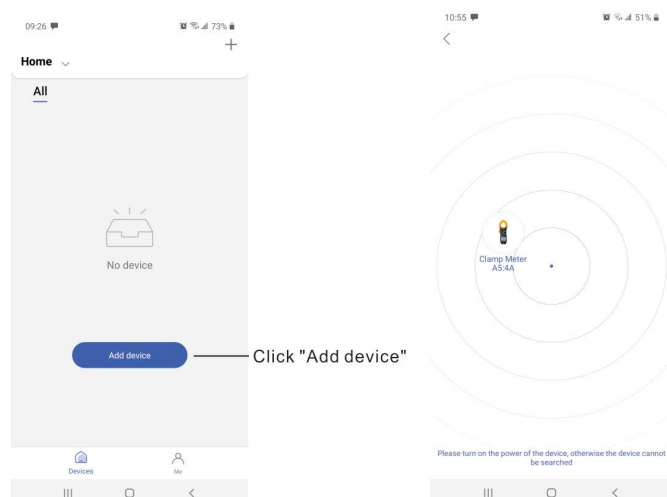
When the user forgets the login password, the login password can be reset through this function .

- 1) Enter the account number to retrieve the password;
- 2) Click the "send" button to send the verification code to the email;
- 3) Enter the verification code, reset the new password, click "submit reset", and then you can log in to the app with the new password .

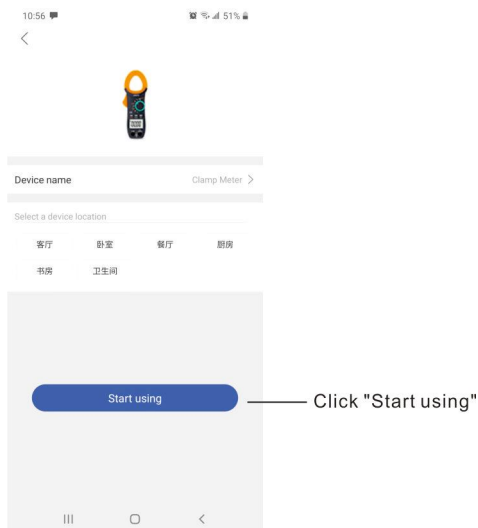


Add device

- 1) Click add equipment, select the equipment to be added, and operate according to the operation instructions to add;



2) Click "start using" to enter the function page.

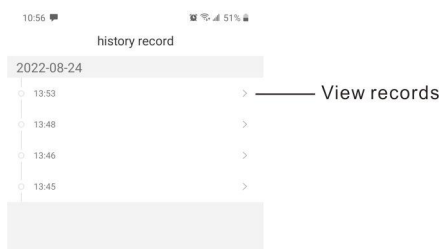


Function

1) The maximum or minimum value and the corresponding time will be displayed on the mobile phone application, and the average value over a period of time from the start of measurement will also be displayed.

2) Press the "start" key to start recording measurement data, and press the "stop" key to stop recording. Press the "reset" key to reset and stop the measurement, clear the old data and restart the recording.

3) Click the "data" button to view the historical record time and historical record data, and press the button at the upper right corner to share or download data.

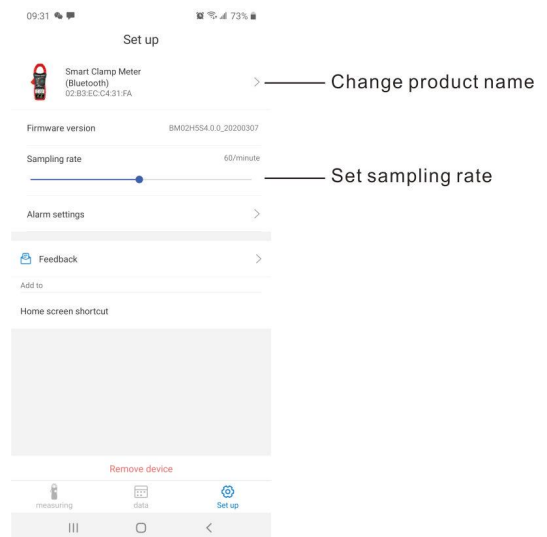


10:57 51%

Download data

index	value	type	time
1	000.1	DCV mV	13:48:46.336
2	000.1	DCV mV	13:48:47.358
3	000.1	DCV mV	13:48:48.801
4	000.1	DCV mV	13:48:50.246
5	000.1	DCV mV	13:48:51.670
6	000.1	DCV mV	13:48:53.124
7	000.1	DCV mV	13:48:54.565
8	000.1	DCV mV	13:48:56.000
9	000.1	DCV mV	13:48:57.425
10	000.1	DCV mV	13:48:58.905
11	000.1	DCV mV	13:49:00.330
12	000.1	DCV mV	13:49:01.799
13	000.1	DCV mV	13:49:03.253
14	OL	OHM Ω	13:49:04.672
15	OL	OHM KΩ	13:49:06.079
16	10.73	OHM MΩ	13:49:07.530
17	OL	OHM MΩ	13:49:08.927
18	OL	OHM MΩ	13:49:10.320
19	0.000	FRE Hz	13:49:11.707
20	0.000	FRE Hz	13:49:13.068
21	0025	TMP °C	13:49:14.457

4) Click "setting" to enter the setting interface, click the device image to change the product name, view the firmware version and set the sampling rate.



※ After using this product, if it is not used for a long time, it is recommended to take out the battery, otherwise the battery will be consumed all the time.

CONTACT US

For any problem or concern, welcome to email us for prompt response.

AFTERSALES1010@HOTMAIL.COM

P.S.

To make sure you can receive immediate solution and your requests processed quickly, please email us with these information:

1. Order Number
2. Platform of Your Purchase
3. Full Model Number
4. Description of the Problem(Attaching videos or photos can help us troubleshoot the problems even faster)

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.