

Measure. Monitor. Manage.

8-in-1 Wi-Fi Energy Meter & Voltage Protector | 63A



63A

Eight readings.

Wi-Fi control.

Temperature monitoring.

Your exact product

Manual model: **KWS-302WF** | amiciSmart label: **AS-EMP-63W**

SKU: **1xELEC-8IN1-DIN-WIFI**

English · Version 1.0 · 17 September 2026

Read before installation. Keep this guide with your configuration record.

Find the help you need

Tap a section below. PDF bookmarks provide the same navigation.

Meet your meter	3
Installation and connections	4
First use and daily operation	5
Connect Wi-Fi and the app	6
Technical reference	7
Voltage and current settings	8
Timer, energy and power settings	9
Temperature and display settings	10
Clear readings or reset settings	11
Troubleshooting and support	12
Keep your configuration	13
About the supplier appendix	14

Applies to the Wi-Fi model only

This guide covers the KWS-302WF model confirmed for this SKU. Product photographs use amiciSmart AS-EMP-63W branding. Other columns in the shared supplier manual describe different models.

Meet your meter

Eight measurements, front-panel settings and connected monitoring.



Display

Voltage, current, power, accumulated energy, power factor, frequency, time and temperature.

External temperature probe

The NTC probe measures temperature where it is positioned.

Power-failure memory

Stored readings are retained; the display and Wi-Fi still need power.

Control	What it does
M	Hold 3 seconds to enter settings. Short press to move through settings. In reading-clear mode, press to clear the selected item.
+	Increase the selected setting. Hold more than 5 seconds from the operating display to enter Wi-Fi pairing.
–	Decrease the selected setting. Hold from the operating display to enter reading-clear mode; hold again to return.
+ and – together	Hold both for 5 seconds to restore factory settings. See page 11 before using reset.

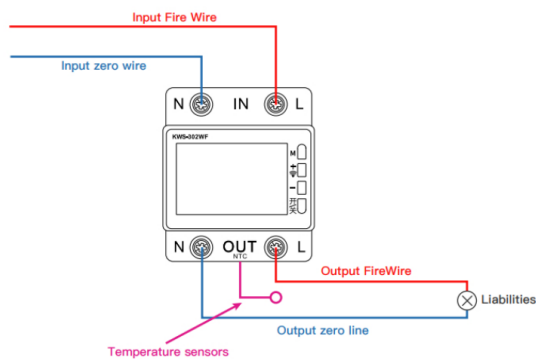
Installation and connections

Electrical installation must be carried out by a qualified electrician.

Isolate before wiring

Disconnect the supply and verify that it is isolated before touching terminals or changing connections. An app OFF command is not safe electrical isolation.

Wiring diagram



Cautions

1. The user should read and understand the operating instructions in detail and use them in accordance with the requirements of the operating instructions.
2. In the process of installation and use, the power supply must be disconnected before wiring to avoid the risk of electric shock.
3. The product must be used in accordance with the place of use and must not exceed the parameters of the product specifications for use.
4. If the product appears abnormal, stop using it immediately.
5. Non-professionals must not use tools to disassemble the appliance or change the internal wiring.

Three guarantees of product quality

1. All products are guaranteed for the entire period. If the customer finds quality problems, we are responsible for unconditional exchange if they are our responsibility. During the service period the products are guaranteed for one year.
2. The products shall not be modified or disassembled by ourselves. The product may not be modified or disassembled by the customer, nor may it be used beyond the scope of the product. We do not provide free exchange or repair services for products that have been damaged by man? However, we can provide repair services for a fee, depending on the degree of damage to the product.

Original supplier diagram

Upper **IN** terminals: supply.
Lower **OUT** terminals: load.

N = neutral.

L = live.

The diagram shows N on the left and L on the right. The **NTC** connection is for the temperature sensor.

Check the markings on the actual device before connecting.

Check the complete circuit

Use a suitable DIN-rail enclosure and assess cables, connected load and required protective devices. The 63A current limit does not establish suitability for every motor or appliance. Do not substitute this meter for required short-circuit or residual-current protection.

First use and daily operation

Configure the functions you need before relying on their protection.

1. Check the installed device

Have the installer verify IN/OUT and N/L connections, load suitability and the NTC probe position. Keep live terminals enclosed. Stop use and seek help if there is damage or abnormal operation.

2. Review the factory configuration

Voltage cutoffs are **270V high / 170V low**; temperature cutoff is **50°C**. Current, timer, energy and power entries are shown with zero defaults, described as off. Do not assume all functions are enabled.

3. Enter and adjust settings

Hold **M for 3 seconds**. Press M to move through the menu and use + / – to adjust. The manual describes returning to the operating display after more than 5 seconds without a key operation.

4. Monitor and investigate

Check displayed readings and app status. If power is cut by a protective function, investigate the cause before restoring power. Automatic reconnection after a trip is not documented; do not rely on unattended recovery.

After adjustment: re-enter the menu to verify values and record them. The source does not clearly specify a separate save command or confirm every setting's retention after power cycling.

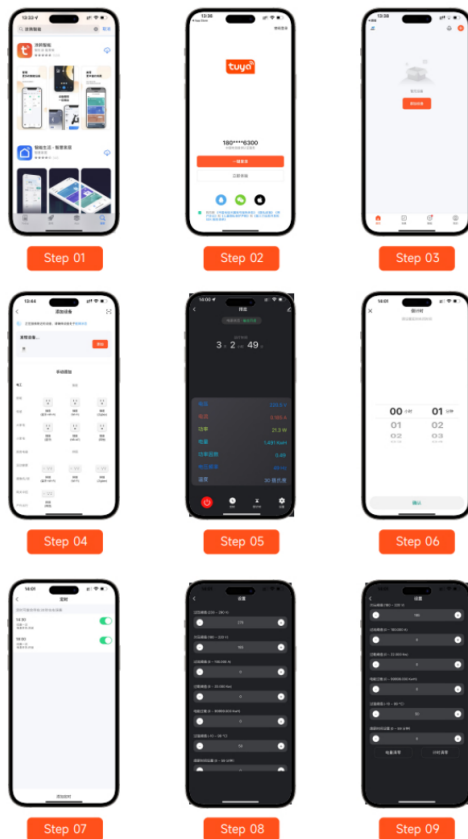
Connect Wi-Fi and the app

The supplier illustrates Tuya Smart; the store listing names Smart Life.

Pair the Wi-Fi model

1. Power the correctly installed meter and have your phone ready.
2. Use the 2.4GHz Wi-Fi network specified by the product listing.
3. Hold **+** **for more than 5 seconds** until the Wi-Fi symbol flashes.
4. Add the device in the app and follow its pairing prompts.

App installation and use



Illustrated app functions

- Electrical readings
- ON/OFF control
- Countdown
- Schedules
- Setting screens

Screen appearance can vary with app or firmware version. Use the actual device values when configuring.

App screenshots are examples, not a source of this model's limits or factory defaults. Remote access requires power and network connectivity. If pairing fails, see page 12.

Technical reference

Ranges below are taken from the KWS-302WF column of the supplier manual.

Item	Manual specification
Voltage range	170–270V
Current measurement	0–63A
Power measurement	0–17kW
Accumulated energy	0–9,999kWh
Timing	0–999 hours
Frequency	50–60Hz
Power factor	0.00–1.00
Temperature measurement	–20°C to 150°C, at the sensor
Power-failure memory	Yes
Wi-Fi	Yes; this guide covers the WF model

Measurement range is not load capacity. A 0–17kW display range does not permit a 17kW load. Respect the 63A limit and installation requirements. At 220V, 63A is about 13.86kW at unity power factor.

The sensor temperature range is not the allowable ambient temperature of the whole device. The listed voltage range does not establish all adjustable cutoff bounds.

Store-listed physical details: DIN-rail mounting; approximate 8 × 6.5 × 4.6cm, 194g, and a 1-metre NTC probe cable. Confirm actual fit before enclosure work.

Voltage and current settings

The sequence below follows the supplier menu; these are not invented P-codes.

Menu entry	Factory value	Adjustment / interpretation
1 · Overvoltage cutoff	270V	Short press + / – changes 1V; hold for faster adjustment. Full lower/upper bounds are not established in the supplied sheet.
2 · Undervoltage cutoff	170V	Short press + / – changes 1V; hold for faster adjustment. Full lower/upper bounds are not established in the supplied sheet.
3 · Overcurrent cutoff	0.000A	Zero is described as the function being off. Set the required current limit for the circuit; never exceed the device/installation rating.

Choose limits for the actual installation

Factory defaults are reference values, not a recommendation for every connected appliance. Have the installer choose appropriate thresholds and confirm the resulting settings.

Current adjustment detail: the source gives inconsistent step sizes. This guide therefore does not promise an exact increment. Observe the device display and confirm the selected value.

The source does not establish trip delay, recovery thresholds or automatic reconnection behaviour for this model.

Timer, energy and power

These are separate cutoff functions. Check the displayed unit before adjustment.

Menu entry	Factory value	Adjustment / interpretation
4 · Timer cutoff	000:00	Zero is described as off. Short press changes the timer by 30 minutes; holding the adjustment key changes it faster.
5 · Accumulated-energy cutoff	0kWh	Zero is described as off. The supplier heading calls this "overpower", but the displayed unit is kWh: an energy quantity, not watts.
6 · Power cutoff	0W	Zero is described as off. This entry uses watts and is distinct from the accumulated-energy limit above.

Do not confuse W with kWh

W / kW expresses power at a given time. **kWh** expresses accumulated energy over time. A timer cutoff is another independent function; it is not the same as resetting the runtime reading.

The source gives conflicting energy and power adjustment increments. Exact increments and full setting bounds are therefore not specified here. Verify the units and final value on your own meter before use.

Temperature and display

Place the sensor appropriately and distinguish screen behaviour from load switching.

Menu entry	Factory value	Adjustment / interpretation
7 · Temperature cutoff	50°C	Short press changes 1°C; hold for faster adjustment. The full selectable cutoff range is not established.
8 · Screen hibernation	H00	The source describes 1-minute steps and 1–60 minutes. Its description of zero mode is unclear; check actual screen behaviour.

The probe measures its own location

The external NTC sensor does not measure every cable or component. The installer should select a useful, appropriate position. Do not interpret the –20°C to 150°C measurement range as the meter's ambient operating rating.

A dark display is not proof of isolation

Screen hibernation relates to the display. Before electrical work, isolate the supply and verify it is safe; do not rely on screen appearance or app status.

After more than 5 seconds without a key operation, the manual describes returning to the operating interface. Recheck the final configuration before returning the installation to normal service.

Clear readings or reset settings

Use the correct procedure for the action you intend.

Clear accumulated energy or runtime

1. Record any reading you need to retain.
2. From the operating display, **hold –** to enter clear mode.
3. Press **+** to select energy or runtime; the selected item flashes.
4. Press **M** to clear the selected item.
5. Hold **–** to return. The manual also describes a 5-second inactivity return.

Cleared totals cannot be recovered through this procedure. The supplier does not give an exact hold duration for entering or leaving reading-clear mode.

Restore factory settings

1. Record the current configuration and important readings.
2. Hold **+** and **–** **together for 5 seconds** to restore factory settings.
3. Recheck every required protection, timer and display setting.
4. Verify app connection and operation before normal use.

Reset consequences

Factory reset resets configured settings. Do not assume it has the same effect as explicitly clearing energy/runtime. The supplier does not state whether factory reset removes Wi-Fi pairing or clears stored totals.

Do not repeatedly reset a device that trips or behaves abnormally. Find and resolve the underlying condition first.

Troubleshooting and support

These checks guide diagnosis; they do not identify a fault with certainty.

Observation	Next step
No display	Have the installer verify supply and connections safely. If the unit is powered, check whether screen hibernation is active.
Cannot pair Wi-Fi	Confirm the Wi-Fi model, power and the 2.4GHz network. Hold + for more than 5 seconds and check for the flashing Wi-Fi symbol; follow the app prompts.
App shows the device offline	Check the meter's power and network availability. Do not rely on remote switching while disconnected.
Power cuts or trips repeatedly	Have the installer compare actual voltage/current/temperature with the settings and inspect the load. Do not raise limits just to hide a fault.
Output does not return	Investigate the cause of the cutoff. Automatic recovery is not documented; ask support for model-specific help.
Unexpected settings or units	Check whether you are adjusting current, runtime, accumulated energy or power. Recheck settings after a reset.
Damage, unusual heat or smell	Stop use, isolate safely and arrange inspection. Do not open or repair the device internally.

Support: quote SKU **1xELEC-8IN1-DIN-WIFI** and send the front label, screen and chosen settings. The listing includes a 1-year warranty; coverage follows the store policy. Avoid modification or misuse.

Contact amiciKart support

Keep your configuration

Complete after commissioning and before a reset. Keep this record privately.

Installation date / location

Installer / contact

Model label / batch

Supply voltage / connected load

Setting	Verified value
Overvoltage cutoff	_____ V
Undervoltage cutoff	_____ V
Overcurrent cutoff	_____ A
Timer cutoff	_____
Accumulated-energy cutoff	_____ kWh
Power cutoff	_____ W
Temperature cutoff / sensor location	_____
Screen hibernation	_____

Checks: supply/load terminals, enclosure, cable/load suitability, required circuit protection, probe position, final settings and app status. Record readings before clearing them; do not record Wi-Fi passwords in this guide.

About the supplier appendix

The following four pages reproduce the supplied manual without technical edits.

Use the first model column

Appendix A compares three models. Only **KWS-302WF** is confirmed for this SKU. Do not import KWS-302L or KWS-302 values into this product’s configuration.

Read screenshots as examples

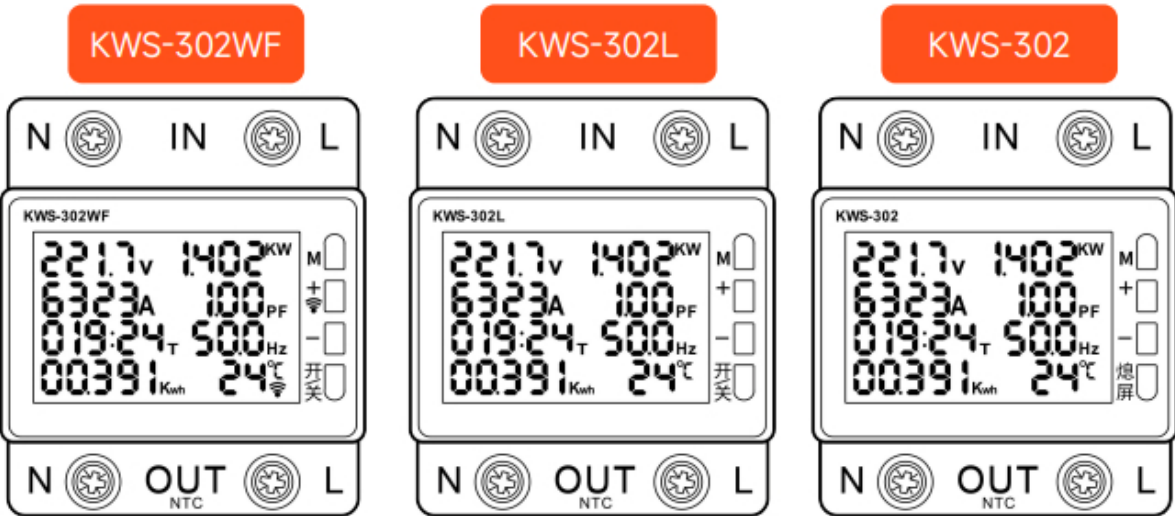
App screenshots can contain values that do not establish this model’s ratings or defaults. Use the specification and settings explanations in this guide. Conflicting adjustment increments and ambiguous zero-mode wording have not been guessed.

Appendix	Original content
A · Supplier page 1	Model comparison and measurement specifications
B · Supplier page 2	Wi-Fi app screens and illustrated functions
C · Supplier page 3	Pairing, clearing, menu settings and reset
D · Supplier page 4	Terminal diagram, precautions and warranty wording

English · Version 1.0 · 17 September 2026
SKU: **1xELEC-8IN1-DIN-WIFI**
Based on the supplied manual and matching amiciKart product listing.

[Open this product on amiciKart](#)

HD colour screen multifunctional AC energy meter installation instructions



Technical specifications

Model	KWS-302WF	KWS-302L	KWS-302
Voltage range	170~270V	170~270V	170~270V
Current range	0~63A	0~63A	0~63A
Power range	0~17KW	0~17KW	0~17KW
Timing range	0-999Hrs	0-999Hrs	0-999Hrs
Electricity range	0-9999Kwh	0-9999Kwh	0-9999Kwh
Temperature range	minus 20~150°C	minus 20~150°C	minus 20~150°C
Frequency range	50-60HZ	50-60HZ	50-60HZ
Power Factor	0.00-1.00PF	0.00-1.00PF	0.00-1.00PF
Power failure memory	Yes	Yes	Yes
Undervoltage protection	Yes	Yes	None
Over-voltage protection	Yes	Yes	None
WIFI	Yes	No	None

App installation and use



Step 01



Step 02



Step 03



Step 04



Step 05



Step 06



Step 07



Step 08



Step 09

Instructions for use

Diagram of the display

SET +--OFF/NO

WIFI connection: Press and hold the "+" key for more than 5S, the WIF1 symbol flashes, while opening the mobile phone graffiti software, add the device to start the connection.

Clear power and running time: Press and hold the "-" key under the running interface to enter power and running time clear mode. Press the "+" key again to switch between power and runtime clearing options, while the selected item flashes. Press the "M" key to clear. Press and hold the "-" key again to return to the operating mode. 5S without key operation automatically returns to the operating interface.

Press and hold the M button for 3 seconds to enter the settings display as follows



1: Over-voltage cut-off protection setting, press M to display as follows: 270.0VHI press +- to adjust (//1V)
Short press once to add or subtract 1V, long press to quickly add or subtract 270.0V default value for factory



2: Under voltage cut-off protection setting, press M again to display the following: 170.0VLO Press +- to adjust (//1V)
Short press once to add or subtract 1V, long press to quickly add up or subtract 170.0V default for factory value



3: For overcurrent cut-off protection setting, press M again to display as follows: 0.000A Press +- to adjust (//1A)
Short press once to add or subtract 0.001A, long press to quickly add or subtract. 0 default is always off



4: Timer power-off protection setting, press M again to display as follows: 000:00T Press +- to adjust (short press once for 30 minutes)
Long press to quickly totalize or reduce. 0 default is always off



5: Over power off protection setting, press M again to display the following: 00000KWH, press +- to adjust (// 1 degree)
Short press once to add or subtract 0.001KWH, long press to quickly add or subtract. 0KWH default is always off



6: Over power cut-off protection setting, press M again to display as follows: 0W press +- to adjust (//10W)
Short press once to add or subtract 0.1W, long press to quickly add or subtract 0W default is always off



7: Over-temperature cut-off protection setting, press M again to display the following: Over-temperature cut-off protection 50°C by +-adjustment (1°C)
Short press once to add or subtract 1°C, long press to quickly add or subtract. 50°C default is factory value

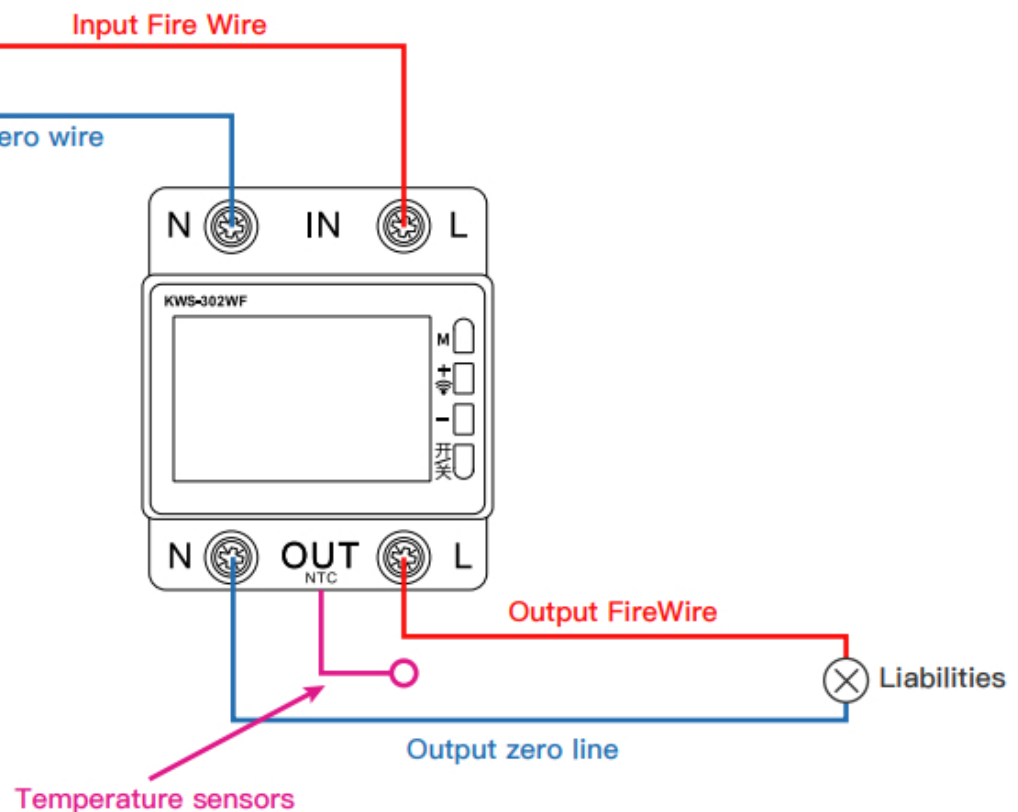


8: Screen hibernation setting, press M again to display as follows: HO0 Press +- to adjust (// 1 minute)
short press once plus or minus 1 minute, long press to quickly accumulate or reduce 0 for often off 1-60 minutes

9: In the setting interface, without any key operation more than 5S, jump back to the operation interface

10: Restore factory settings: press and hold +- at the same time to reset all settings for 5 seconds.

Wiring diagram



Cautions

1. The user should read and understand the operating instructions in detail and use them in accordance with the requirements of the operating instructions.
2. In the process of installation and use, the power supply must be disconnected before wiring to avoid the risk of electric shock.
3. The product must be used in accordance with the place of use and must not exceed the parameters of the product specifications for use.
4. If the product appears abnormal, stop using it immediately.
5. Non-professionals must not use tools to disassemble the appliance or change the internal wiring.

Three guarantees of product quality

1. All products are guaranteed for the entire period. If the customer finds quality problems, we are responsible for unconditional exchange if they are our responsibility. During the service period the products are guaranteed for one year.
2. The products shall not be modified or disassembled by ourselves. The product may not be modified or disassembled by the customer, nor may it be used beyond the scope of the product. We do not provide free exchange or repair services for products that have been damaged by man? However, we can provide repair services for a fee, depending on the degree of damage to the product.