

Measure. Protect. Reconnect.

WiFi Bi-Directional Energy Meter & Protector · 3-phase · 4P · 80A



80A

3-phase + N (4P)
AC 380V

Bi-directional
metering

OV · UV · OC · UC
· leakage · Wi-Fi

Electrical identity: three-phase + neutral (4P), supply AC 380V. amiciKart **rated / marketed current = 80A** (safety downplay). Supplier PDF headlines “100A...” — do not plan installs above 80A from that headline. Factory over-current default **80.0A** aligns with this choice.

Your exact product

Meter SKU: **1xCLR-MUL-PRO-4P** · CT coil option: **1xCLR-MUL-PRO-COIL**
Product ID **8428425543835** · English · Version 1.2 · 18 September 2026

Read before installation. Have a qualified electrician install and configure this device. Keep this guide with your configuration record.

Find the help you need

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

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Applies to this product

This guide covers SKU **1xCLR-MUL-PRO-4P** (Shopify product ID **8428425543835**): **3-phase + neutral (4P)** Wi-Fi energy meter and protector, rated **80A** (amiciKart safety marketing), Smart Life / Tuya. Optional leakage CT: **1xCLR-MUL-PRO-COIL**. Shopify previously used an incorrect single-phase handle/SEO wording — that has been corrected; this manual follows the supplier three-phase documentation and product photos (L1/L2/L3), with buying current deliberately listed at 80A rather than the supplier's 100A headline.

Meet the meter

Colour LCD metering with adjustable protections and optional leakage CT.



Colour LCD

Live readings: voltage, current, power, frequency, power factor, forward/reverse energy (kWh), and leakage when CT is fitted.

Phase indicators

Front LEDs labelled **L1**, **L2**, **L3**, plus Wi-Fi and reverse-energy indicators — consistent with three-phase hardware.

DIN-rail 4P body

L1/L2/L3/N terminals (IN top / OUT bottom per supplier diagram).

Capability	What it means for you
Supply	Three-phase + neutral (4P), AC 380V rated
Rated current (amiciKart)	80A — market / plan installs at 80A for safety
Adjustable OC / UC range	1.0–100.0A (supplier hardware range; OC default 80.0A)
Over / under voltage	Per-phase OV 120–300V · UV 80–210V
Leakage	10–100mA with compatible CT (default 30mA)
Bi-directional metering	Forward and reverse energy on display / app
App	Smart Life / Tuya Smart · 2.4 GHz Wi-Fi
Auto reconnect	Recovery delays after conditions normalise

Controls (product photo + supplier manual): front keys **SET**, **▲**, **▼**, **OK**. Long-press SET to enter settings; **▲**/**▼** to change; short OK to confirm/next; long OK to save/exit. App-only protections include voltage/current imbalance, missing phase, phase sequence and high temperature.

Installation boundaries

Electrical installation must be carried out by a qualified electrician.

Isolate before wiring

Disconnect the supply and verify isolation before touching terminals. An app OFF command is **not** safe electrical isolation. Supplier note: the product has **no isolation function** — power must be turned off before repair.

Confirm three-phase 4P supply and rating

Wire **L1, L2, L3 and N** exactly to the marked terminals (IN top / OUT bottom). Rated supply **AC 380V**, frequency **50/60 Hz**. amiciKart **rated / marketed current = 80A** — size the circuit and cable for continuous load at or below 80A; do not plan installs above 80A from the supplier's 100A headline. Have the electrician confirm cable capacity (supplier: insulated copper under 35 mm²) and load before commissioning.

Neutral has no disconnection — cannot replace a breaker

- The **neutral (N)** is **directly connected** with no disconnection function.
- This device provides metering and adjustable protection but **cannot replace** a normal circuit breaker. Install an appropriate breaker upstream.
- Tighten clamp screws firmly to avoid damage from poor contact.

CT coil for leakage

Leakage monitoring needs the CT coil option (**1xCLR-MUL-PRO-COIL**) or another compatible coil. Without a fitted compatible coil, treat leakage features as unavailable. Fit and orient the coil as the electrician determines for the circuit.

Environment (supplier): working temperature $-30\text{ }^{\circ}\text{C}$ to $70\text{ }^{\circ}\text{C}$ · humidity $\leq 85\%$ · altitude $\leq 2000\text{ m}$ · pollution level 3 · modular DIN-rail installation. Match markings on the actual unit; do not invent torque values not printed in the source.

Daily use and Wi-Fi

Configure protections before relying on them. Pair on 2.4 GHz Wi-Fi.

1. Check the installed device

Verify L1/L2/L3/N connections, DIN-rail seating, enclosure clearances and (if used) CT placement. Keep live terminals enclosed. Stop use and seek help if there is damage, unusual heat, smell or abnormal operation.

2. Set protection limits on device or app

Long-press **SET** → adjust with ▲/▼ → short **OK** to step → long **OK** to save. Set OV/UV, over/under current, delays, leakage (with CT) and display mode for this installation. Factory over-current default is **80.0A** — keep continuous load within the amiciKart **80A** rating. Some protections (imbalance, missing phase, phase sequence, high temperature) are set in the app only.

3. Auto reconnect after recovery

After a protective trip, recovery timers restore supply once conditions are normal again (voltage recovery default 20 s; current recovery default 20 s — see protections table). Investigate repeated trips with an electrician; do not raise limits only to hide a fault.

4. Connect Smart Life / Tuya

1. Power the correctly installed meter.
2. Use a **2.4 GHz** Wi-Fi network.
3. In **Smart Life** or **Tuya Smart**: Add device → Energy → Switch module (Wi-Fi).
4. Long-press the Wi-Fi control about **5 seconds** until the indicator flashes quickly, then complete pairing. Wi-Fi LED: fast flash = searching · slow flash = offline · solid = connected.

Remote monitoring needs power and network. App screens vary with firmware. Use actual device readings when configuring limits. Fault records are also kept in the Tuya/Smart Life app.

Technical reference

amiciKart 80A rating (safety) · supplier sheet headline “100A...” kept as reference only.

Item	Specification
Primary SKU	1xCLR-MUL-PRO-4P
Accessory SKU	1xCLR-MUL-PRO-COIL (CT coil for leakage)
Brand	amiciKart / amiciSmart (as marked on device)
Shopify product ID	8428425543835
Supply / poles	Three-phase + neutral (4P) · AC 380V · 50/60 Hz
Operation voltage range	AC 80–400V (supplier table; three-phase device)
Rated current (amiciKart)	80A (safety marketing; plan installs ≤ 80A)
Supplier headline / OC range	Sheet says “100A...” (ref only) · OC/UC adj. 1.0–100.0A (OC def. 80.0A)
Power / energy display	0–99999.9 kWh (bi-directional)
Protection trip action	< 0.5 s (supplier)
Over-voltage	120–300V (default 275V)
Under-voltage	80–210V (default 175V)
Over-current	1.0–100.0A (default 80.0A)
Under-current	1.0–100.0A (default 10.0A)
Leakage	10–100mA / OFF (default 30mA; CT required)
Display / app	Colour LCD · Smart Life / Tuya · 2.4 GHz Wi-Fi
Mounting / size (approx.)	DIN rail · ~75.3 × 89.5 × 75.3 mm (supplier drawing)
Warranty (store)	1 year (store policy)

80A marketing: Cover/listing/manual rate **80A** for safety. Supplier appendix may still show “100A” in scanned headlines — reference only; do not plan installs above 80A. Factory OC default 80.0A aligns.

Scan honesty: Soft/pixelated digits (e.g. voltage-delay “3s” vs display “0030”; under-current example vs 10.0A default). Prefer range + factory-default columns; verify on the live device.

Not invented: torque Nm, IP rating, certified breaking capacity, unlisted P-code menus.

Protections and factory defaults

Ranges and defaults from the supplier parameter table. Verify on the device.

Function	Range	Default	Code
Over voltage limit	120–300V	275V	H-U
Under voltage limit	80–210V	175V	L-U
U/O voltage prot. delay	1–9999 s	3 s*	u-d-s
U/O voltage recovery	1–9999 s	20 s	u-r-s
Over current limit	1.0–100.0A	80.0A	H-C
O/U current prot. delay	0–9999 s	5 s	c-d-s
O/U current recovery	0–9999 s	20 s	C-r-S
Under current limit	1.0–100.0A	10.0A	L-c
Current leakage limit	10–100mA	30mA	LE
Display mode	Mode 1 / 2	Mode 1	dSP
Energy clear / factory reset	OFF / ON	OFF	CLr / rESEt

***Unclear scan:** voltage-delay default is listed as 3 s; the on-screen example in the scan may show 0030. Confirm on your unit after install. Under-current description text in the scan also shows an example value that differs from the 10.0A factory default — trust the default column, then verify. OC default **80.0A** matches amiciKart's 80A marketed rating.

Package options

- **1xCLR-MUL-PRO-4P** — three-phase 4P meter / protector, amiciKart rated **80A**.
- **1xCLR-MUL-PRO-COIL** — CT coil for leakage function.

Confirm what arrived before commissioning leakage. Each protection can use a threshold and On/Off.

App-only (supplier): voltage imbalance, current imbalance, shortage/missing phase, phase sequence, high temperature. Record chosen values on page 9.

Troubleshooting and support

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

Observation	Next step
No display	Have the installer verify three-phase supply and L1/L2/L3/N connections safely. Confirm the unit is powered.
Cannot pair Wi-Fi	Confirm 2.4 GHz network. Long-press Wi-Fi ~5 s until fast flash. Follow Smart Life / Tuya prompts; retry after a brief power cycle if needed.
App shows device offline	Check meter power and local network. Do not rely on remote switching while disconnected.
Power cuts or trips repeatedly	Compare phase voltages/currents/leakage with set limits. Inspect load and wiring with an electrician. Do not raise limits only to hide a fault.
One phase LED dark / missing phase	Check upstream supply and wiring for that phase. Use app missing-phase / sequence protections if enabled.
Leakage function missing / inactive	Confirm CT coil (1xCLR-MUL-PRO-COIL) is fitted and connected. Without a compatible coil, leakage protection is not available.
Expected single-phase behaviour	Wrong expectation for this SKU. This product is 3-phase + N (4P), AC 380V, rated 80A (amiciKart). Earlier store SEO incorrectly said single-phase — corrected.
Can I run above 80A?	No for planning/buying. Listing and this manual rate 80A for safety. Supplier sheet may say 100A — do not plan installs above 80A from that headline.
Damage, unusual heat or smell	Stop use, isolate safely and arrange inspection. Do not open or repair the device internally.

Support: quote SKU **1xCLR-MUL-PRO-4P** (and 1xCLR-MUL-PRO-COIL if relevant). Send a clear photo of the front label/display and your chosen settings. Store warranty: **1 year** — coverage follows store policy. Contact channels include WhatsApp / call **980-970-9898** and care channels on amickart.com.

[Contact amiciKart support](#)

[Browse amiciKart products](#)

08 / INSTALLATION RECORD

Keep your configuration

Complete after commissioning. Keep this record privately — do not write Wi-Fi passwords here.

Installation date / location

Installer / contact

Model label / batch / serial

Supply confirmed (3-phase + N / 4P) / connected load ($\leq 80A$)

Setting	Verified value
Over-voltage cutoff	_____ V (range 120–300V · default 275V)
Under-voltage cutoff	_____ V (range 80–210V · default 175V)
Voltage prot. / recovery delay	_____ s / _____ s
Over-current cutoff	_____ A (adj. 1–100A · default 80.0A · rate $\leq 80A$)
Under-current cutoff	_____ A (adj. 1–100A · default 10.0A)
Current prot. / recovery delay	_____ s / _____ s
Leakage cutoff (if CT fitted)	_____ mA (10–100mA · default 30mA)
CT coil fitted?	Yes / No · SKU / notes: _____
App paired (Smart Life / Tuya)	Yes / No · 2.4 GHz: _____

Installer checks: 3-phase + N wiring to L1/L2/L3/N; N has no isolation; upstream breaker still in place; DIN-rail secure; CT orientation (if used); continuous load planned $\leq$ amiciKart **80A**; settings verified on LCD; Wi-Fi connected. Leave blank rather than guessing unclear scanned digits.

Sources and version notes

What is authoritative for v1.2, and what changed from v1.0 / v1.1.

Authoritative for this manual (v1.2)

- SharePoint / supplier PDF stored as **1xCLR-MUL-PRO-4P.pdf** — titled **100A WIFI Smart Three Phase Energy Meter & Protector** (primary electrical / feature source; headline current is **not** the amiciKart buying rating).
- Product photos showing **L1 / L2 / L3** phase indicators and bi-directional metering.
- Owner direction (18 Sep 2026): identity remains **3-phase + neutral (4P)**, AC 380V; amiciKart **rated / marketed current = 80A** for safety.

Version history

- **v1.0** wrongly treated Shopify single-phase ~80A SEO as listing truth and rejected the supplier PDF.
- **v1.1** restored three-phase 4P and marketed the supplier-headline 100A figure as the buying rating.
- **v1.2** keeps three-phase 4P identity but deliberately markets **80A** for safety (factory OC default 80.0A aligns). Supplier appendix pages that show “100A” stay as reference with an amiciKart note: do not plan installs above 80A.

Deferred / unknown (honest gaps)

- Soft/pixelated digits on the scanned sheet (noted on pages 6–7) — verify on device.
- Exact torque (Nm), IP rating, certified short-circuit capacity — not stated → omitted.
- Hero cutout artwork deferred (Shopify photo used as-is).
- Font: Liberation Sans (Segoe UI unavailable on build host).

English · Version 1.2 · 18 September 2026 (IST)

SKU: **1xCLR-MUL-PRO-4P** · Product ID 8428425543835

Status: created for review — **not** uploaded to SharePoint and **not** published to Shopify metafields.

[Contact amiciKart support](#)

Supplier manual pages

The next pages reproduce the SharePoint supplier PDF for this SKU.

How to use this appendix

These pages are the primary scanned source for ranges, defaults, wiring (L1/L2/L3/N), dimensions, safety notes and app pairing. Use them together with pages 1–10. If a scanned digit is unclear, verify on the live device and record the value on page 9.

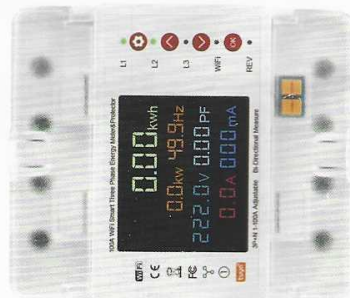
What you will see

- Main functions (13 protections including app-only items)
- Display modes, Wi-Fi LED meanings, settings key sequence
- Parameter table with ranges and factory defaults (OC default 80.0A)
- Installation conditions, safety notes, 4P wiring diagram, product parameters, app add flow
- Scanned headlines may still say “100A” — see the amiciKart note on each appendix page

Identity + rating reminder: three-phase + neutral (4P) · AC 380V · amiciKart rated **80A** (safety) · OV/UV/OC/UC/leakage · bi-directional energy · Smart Life / Tuya · DIN rail. Do not plan installs above 80A from the supplier's 100A headline.

Appendix pages carry a blue “Supplier reference” banner plus an amiciKart 80A safety note (not a rejection stamp). They are part of the correct documentation set for this SKU.

100A WiFi Smart Three Phase Energy Meter&Protector User's Manual



Main Functions:

1. Over Voltage Protection
2. Under Voltage Protection
3. Over Current Protection
4. Under Current Protection
5. Delay Protection
6. Timer Switch
7. Bidirectional Energy Monitor
8. Voltage Imbalance Protection(Can only be set on App)
9. Current Imbalance Protection(Can only be set on App)
10. Shortage Phase Protection(Can only be set on App)
11. Phase Sequence Protection(Can only be set on App)
12. High Temperature Protection(Can only be set on App)
13. Current Leakage Protection(This function must be used with out or built-in current transformer)

Each parameter can be set with action threshold and On/Off.

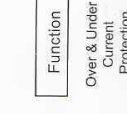
Function	Set Parameter Range	Factory Default Settings	Function Description
Over Voltage Limit	120V-300V	275V	If the over voltage limit is set at 300V, when the voltage is over 300V, the device will automatically switch off.
Under Voltage Limit	80-210V	175V	If the under voltage limit is set at 80V, when the voltage is under 80V, the device will automatically switch off.
Under & Over Voltage Protection Delay	1-9999Second(S)	3s	If the voltage is over or under the set value, the device will automatically switch off after the set delay time.
Over & Under Voltage Protection Recovery Time	1-9999Second(S)	20s	If the voltage is over or under the set value, the device will automatically switch off and when the voltage returns to normal value it will recover after the set delay time.
Over Current Limit	1.0-100.0A	80.0A	If the over current limit is set at 80A, the device will automatically switch off when the current is over 80A.
Over & Under Current Protection Delay	0000-9999Second(S)	5s	If the current is over or under the set value, the device will automatically switch off after the set delay time.

1. Display Mode

Mode 1



Mode 2



2. Fault Records:

Record over & under voltage, over & under current, current leakage, voltage imbalance, current imbalance, and phase sequence protection. Note: TuYa app records.

3. WiFi Indicator Light Status:

1. Fast flashing indicates searching for WiFi signal
2. Slow flashing indicates WiFi offline status
3. Long light indicates that WiFi is connected

4. Fault Settings:

Long press key to enter the settings states and show the settings

Change the settings by prese keys

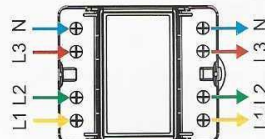
Short press OK key to confirm the settings on this page and jump to the next settings page

Long press OK key to exit the settings states and save the settings

Function	Set Parameter Range	Factory Default Settings	Function Description
Over & Under Current Protection Recovery Time	0000-9999Second(S)	20s	If the current is over or under the set value, the device will automatically switch off and when the current returns to normal value it will recover after the set delay time.
Under Current Limit	1.0-100.0A	10.0A	If the under current limit is set at 60A, the device will automatically switch off when the current is under 60A.
Current Leakage Limit	10-100mA	30mA	If the current leakage limit is set at 30mA, the device will automatically switch off when the current leakage is over 30mA.
Display Mode	Display Mode 1 Display Mode 2	Display Mode 1	Default Display Mode 1, refer to page 3 (Display Mode)
Energy Consumption Zero Clearing		Default OFF	OFF/On
Factory Settings Reset		Default OFF	OFF/On

1. This product has no isolation function. Please turn off the power before repairing.
2. The zero line (Neutral N line) of this product is directly connected without any disconnection function.
3. The device must be wired according to the markings and must be installed correctly.
4. Although this device has protection function, but it cannot replace normal circuit breaker, so please install circuit breaker before this device as always.
5. Please tighten the clamp screws hard to avoid the device being damaged caught by poor contact.

1. Use your smart phone to scan QR codes, or search "Smart Life" or "Tuya Smart" app in Google play or APP Store to download and install.
2. Create an account with your mobile number.
3. Connect your mobile to your Wi-Fi router. Click "+" in the upper right corner of homepage or click "Adddevice" then select "breaker." Switch mode ["Wi-Fi" from "Energy"] long press WiFi button for 5 seconds, after the WiFi indicators starts to flash quickly, open app to pair.



Operation Voltage Range: 20V~40V (Single Phase) Rated Current: 1.00A Operating Temperature: -30°C to 70°C	Under Voltage (<U) 30~210V Over Current & Leakage Protection Current Leakage: 10~99mA/OFF Current Times: 1~30 times/OFF
Rated Supply Voltage: AC230V Rated Power: 50/60Hz Protection Trip Action Time: <0.5s	Setting Range: Over Voltage(> U) 120~300V Over Current & Leakage Protection Current Leakage: 10~99mA/OFF Current Times: 1~30 times/OFF

