

DIGITAL USER GUIDE

See every watt clearly.

6-in-1 AC Digital Power Meter · Single-phase · SKU 1xELEC-6IN1-MTR



100 A

Single-phase AC
Colour LCD · 6 readings
50.0–300.0 V

Supplier model
D48-2058
Brand **amiciSense**

Owner confirmed (holds resolve): this SKU is **single-phase only**. Do not install or market as a three-phase meter. Commercial voltage range for this listing is **AC 50.0–300.0 V** with external CT current sensing to **100 A**. WAVE listing published.

Compatible package: SKU **1xELEC-6IN1-MTR** only. Panel-mount meter with separate ring CT.

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Original D48-2058 sheet (may differ where noted)

This digital guide is for the amiciSense panel meter sold as SKU **1xELEC-6IN1-MTR**. It is not a Wi-Fi or DIN-rail overload protector. Electrical work should be done by a qualified person.

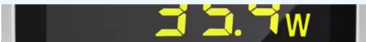
01 • OVERVIEW

Six readings on one colour screen

Voltage · Current · Power · Energy · Frequency · Power factor

What it measures

Active power (W), electric energy (kWh), AC voltage (V), frequency (Hz), AC current (A) and power factor (PF) update about twice per second on the colour LCD.



How current is sensed

Current uses the supplied external ring current transformer (CT). Pass the live (measure-loop) conductor once through the CT hole. Do not open the CT ring.

Scope lock

Single-phase AC only (owner). This SKU's voltage window is **50.0–300.0 V AC**. A separate 250–450 V hardware option exists in the supplier family but is not this listing.

Front identity

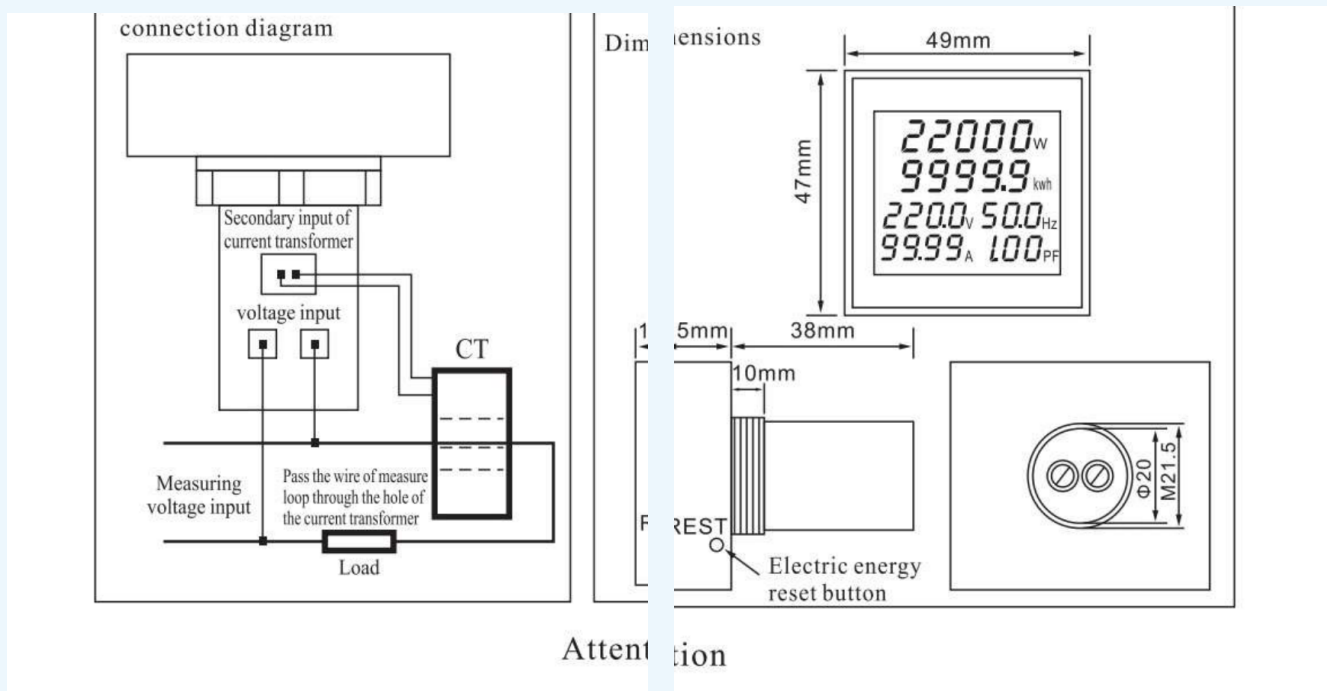
Face shows amiciSense branding and model **D48-2058**. Illustrated display values on photos are examples, not factory defaults.

02 · INSTALLATION

Mount the meter, then wire voltage and CT

Isolate supply before any terminal or CT work

1. Cut a circular panel hole about **Φ22 mm** (supplier sheet). Front bezel is about **49 × 47 mm**; body depth behind the panel is about **38 mm** (including ~10 mm thread). Rear mount nut is marked about **Φ20 / M21.5**.
2. Fit the meter from the front and secure with the rear nut. Keep the side **REST** energy-reset hole accessible.
3. Connect the CT secondary two-wire plug to the meter's **secondary input of current transformer** terminals. Pass the load's measure-loop conductor through the CT centre hole.
4. Connect the **voltage input** terminals across the AC circuit you want to measure (same single-phase supply). Energise and read the display.



02 · INSTALLATION

Boundaries that protect the meter

Follow the supplier Attention note for this voltage class

50–300 V class (this SKU)

The supplier Attention note states the **50–300 V** meter is **not** subject to the inverter / square-wave destruction warning that applies to the 250–450 V class. Still treat non-sine waveforms as unverified for measurement accuracy.

250–450 V class (not this SKU)

That option may only measure 50 Hz AC city electricity and can be destroyed by square wave, inverter output or corrected sine wave. Do not assume spare 250–450 V units behave like this listing.

Safety practice

De-energise before wiring. Observe CT polarity/orientation as labelled on the CT if present. Do not exceed the CT / meter current window. This device measures and displays; it is not a circuit breaker or residual-current device.

Torque / conductor size

Supplier sheet does not publish terminal torque or recommended conductor mm². Use fittings appropriate to the panel and CT lead; do not invent values.

03 · OPERATION

Read the screen; reset energy when needed

No menu tree — live readings plus one reset control

Reading	Typical unit	Notes from supplier sheet
Active power	W	0–45000 W span; 0.1 W steps to 9999.9 W, then 1 W
Electric energy	kWh	0–99999 kWh; autosaves across power loss
Voltage	V	This SKU: AC 50.0–300.0 V
Frequency	Hz	45.00–65.00 Hz
Current	A	0–100.0 A via CT; 0.01 A below 100 A; clamps display at 100.0 A
Power factor	PF	0.00–1.00

Energy autosave

When supply is removed, the meter keeps the last energy total and continues accumulating from that value after the next power-on.

Energy reset (REST)

The reset hole is on the lower-right / side of the front body (labelled REST). Press with a thin insulated needle for about **4 seconds** to clear electric energy to zero. Voltage/current wiring is unchanged.

04 • SPECIFICATIONS

Technical indicators (supplier sheet)

Primary source: Product Manuals 1xELEC-6IN1-MTR.pdf · D48-2058

Item	Value
Accuracy	1% ± 2 words (supplier wording)
AC voltage (this SKU)	AC 50.0–300.0 V
AC voltage (other order option)	AC 250.0–450.0 V — not this listing
AC current	AC 0–100.0 A (CT); shows 100.0 A if higher
Power frequency	45.00–65.00 Hz
Power factor	0.00–1.00 PF
Active power	0–45000 W (source sheet)
Electric energy	0–99999 kWh
Update rate	About 2 times per second
Body size	49 × 47 × 52 mm
Panel hole	About Ø22 mm
Phase	Single-phase AC only (owner)

Listing note: store graphics show active power as 0–30000 W while the supplier sheet states 0–45000 W. This guide keeps the supplier figure and records the difference in the evidence ledger.

Product page: [Open live listing](#)

05 · TROUBLESHOOTING

Observation → next step

If in doubt, isolate supply and re-check CT and voltage leads

You notice	Try this
Blank display	Confirm voltage input is live within 50–300 V AC; check panel mounting nut not shorting terminals.
Voltage OK, current 0.00 A	Confirm the load conductor passes through the CT hole; CT secondary plugged into the meter.
Implausible power / PF	Verify CT on the same circuit as the voltage sense; single conductor through CT (not both L and N).
Energy will not clear	Hold REST with a needle ~4 s; do not use conductive tools that bridge terminals.
Used on inverter / square wave	50–300 V class is less restricted than 250–450 V class, but treat readings as unverified on non-sine outputs.
Need three-phase metering	This SKU is single-phase only. Choose a dedicated three-phase meter family instead.

Support: care@amicikart.com · Product help page linked below.

Contact amiciKart support

Product page

Installation record

Fill at commissioning; keep with the panel drawings

Field	Entry
Date / technician	
Panel / circuit ID	
Supply (single-phase V nominal)	
Conductor through CT (mm ² / colour)	
CT orientation / notes	
Displayed V / A / W at load test	
Energy start (kWh) after reset?	Yes / No
Customer acceptance	

No password or parameter menu is documented on the supplier sheet for this meter. If your unit's firmware differs, photograph the rear label and contact support before changing wiring assumptions.

07 · ENERGY RESET

Clear the kWh total

Does not change wiring or voltage/current calibration

Steps

1. Note the current energy reading if you need a billing hand-off.
2. Locate the **REST** hole on the meter body (lower-right / side of the front).
3. Insert a thin insulated needle and hold about **4 seconds** until energy returns to zero.
4. Confirm other live readings still update normally.

After a power cut

Energy is autosaved. A power cut does **not** clear kWh. Only the REST action clears the counter.

Caution

Do not insert metal objects that could short the voltage terminals. De-energise if you cannot reach REST safely with the panel live.

Original supplier sheet

Source file name 1xELEC-6IN1-MTR.pdf · Model D48-2058

The following page reproduces the Product Manuals source for this SKU. Where this digital guide and the sheet disagree, prefer the **owner single-phase** lock and the **50-300 V** commercial range for SKU 1xELEC-6IN1-MTR, and see the evidence ledger.

D48-2058 Multi-Function Digital Meter

User Guide

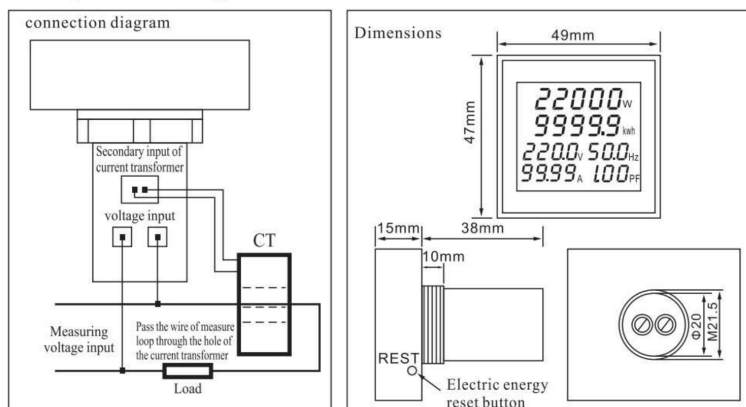
D48-2058 multi-function digital meter can measure AC voltage, AC current, power factor, active power, electric energy and power frequency. The meter display part adopts the color high-definition LCD screen

Technical Indicators

1. Accuracy: 1%+2 words
2. Range: AC voltage: AC50.0-300.0V/AC250.0-450.0V (You should select the one type of meter in your order)
AC current: AC 0-100.0A (the accuracy is 0.01A when measure signal lower than 100A, when measure signal higher than 100A, the meter will show 100.0A)
Power frequency: 45.00-65.00Hz
Power factor: 0.00 - 1.00PF
Active power: 0-45000W (The display accuracy is 0.1W when the active power between 0 and 9999.9W, otherwise the accuracy is 1W)
Electric energy: 0-99999kwh (The display accuracy is 0.01kwh when the electric energy between 0-999.99kwh, 0.1kwh when the electric energy between 10000.0-9999.9kwh, 0.01kwh when the electric energy between 100000-99999kwh)
3. Speed: 2 times per second
4. Size: 49×47×52
5. Hole: diameter Φ22mm
6. Autosave: When the meter power is off, the current electric energy value will be automatically saved. the meter will read the value after the next power on and going to keep adding to the saved value. number.

Application Method

1. According to the wiring diagram, connect the plug two-wire of the current transformer to transformer the input on meter, make the current return conductor across the hold which in the middle of the current transformer.
2. Connect the voltage measurement to the voltage input terminal of the meter. Then turn on and measure the voltage to start to read the measure result
3. The electric energy reset button is on the right-bottom of the meter. you can press the button with a needle last for 4. second, then the electric energy will be reset.



Attention

The meter with measure range between 250-450V can only use to measure 50Hz AC city electricity, it will be destroyed when use to measure square wave, output of inverter and correction sine wave. The meter with measure range between 50-300 not affected.