

Protection. Readings. Control.

5-in-1 Voltage Protector & Energy Meter | 63A



63A

Voltage.
Current.
Power.
Frequency.
Energy.

Your exact model

AS-AVP-5EN-63A

Product SKU: **1xOVRLOD-5IN1-IN**

Keep this guide with the product. Installation and configuration must be carried out by a qualified electrical professional.

Find what you need

Tap a section below or use the PDF bookmarks.

03 Read the front panel

Identify the five readings and control buttons.

04 Install safely

Supply isolation, terminal markings and circuit protection.

05 Operate the device

Menu access, temperature view, timers and reconnection.

06 Technical reference

Supply, environment, protection and physical data.

07 Timing and voltage settings

P1-P10, including confirmed 230V defaults.

09 Current and advanced settings

P11-P18, including limits of the supplied instructions.

10 Reset and clear energy

Two separate procedures; record settings first.

11 Troubleshooting

What to observe and when to contact support.

12 Installation record

Record settings and checks for future reference.

13 Original supplier manual

All three original pages, retained for reference.

Scope: this guide is for AS-AVP-5EN-63A only. Its P1-P18 menu differs from other amiciSmart voltage protectors. Match the front label before following a setting.

Read the front at a glance

Microcontroller-based device. The photo shows example readings.



FIVE READINGS

Red: voltage (V), current (A).

Green: frequency (Hz), power (kW).

White: accumulated electrical energy (kWh).

The front label shows **1000 imp/kWh** beside the pulse indicator. The display is for monitoring; see the metering limitation on page 6.

Control	Function from the supplier manual
SET	Enter the parameter-setting menu. Long press SET to save changes and exit.
UP	In menu: short press to increase a value. Outside menu: short press to view device temperature.
DOWN	In menu: short press to decrease a value. Outside menu: short press to start timing; the timer icon lights.
Power	Short press for ON/OFF. In OFF state, long press to restore factory settings (page 10).

Check the circuit first

Installation and configuration must be performed by qualified professionals.



IN: incoming supply, at the top.

OUT: outgoing connection, at the bottom.

N: neutral.

L: line.

Identify the moulded markings on the actual device.
Do not use promotional wire colours as a connection guide.

Required circuit protection

The supplier requires a circuit breaker at both the input (upstream) and load ends. This device does not remove that requirement. Have the installer select the appropriate protective devices for the circuit.

Isolate, connect, check

Disconnect all power supplies before wiring or handling terminals. Never touch terminals while energised. Check that terminals are correctly connected before energising the installation.

Mounting and environment: DIN-rail device; the listing specifies 35mm rail, not included. Avoid corrosive gas, strong sunlight and rain. IP20 is not a weatherproof rating. The supplied sheet gives no cable-size or tightening-torque values; obtain these before installation.

From setup to normal use

Read the existing settings before making changes.

1 / Enter and adjust

Use SET to enter the parameter-setting menu. UP increases and DOWN decreases the selected value. Record the original value before changing it.

2 / Confirm before returning to service

Long press SET to save changes and exit. The device also saves automatically after a timeout; the timeout duration is not specified. Verify the retained values before returning the device to service.

3 / Understand the delays

P1 is the power-on delay; P2 is the recovery delay. P9 is voltage-protection action time; P12 is current-protection action time. These have different purposes and should not be treated as interchangeable.

4 / Use timing deliberately

P3 controls timer OFF and P4 timer ON. The source says P3 must be changed before P4 can be adjusted. Outside the menu, short press DOWN to start timing. The timer icon lights. Timers run once; cancel by setting OFF.

Temperature: outside the menu, short press UP to view the device temperature. The supplier lists a trip at **85°C** and automatic restoration when temperature falls to **65°C**. These are internal device protection values, not ambient operating limits.

The technical reference

Supplier data unless a different source is identified.

Item	Value
Rated supply / operating range	AC 120V / AC 230V; operating range AC 80-300V
Frequency / rated current	50/60Hz; up to 63A
Voltage hysteresis	Overvoltage 5V; undervoltage 5V
Measurement accuracy	0.5 class (supplier wording)
Rated insulation voltage	450V; not the operating supply voltage
Output contact	1NO (one normally open contact)
Electrical / mechanical life	10 ⁵ / 10 ⁶ operations, supplier-listed
Protection class / pollution degree	IP20 / 3
Altitude	Below 2000m
Ambient operating temperature	-5°C to +40°C
Humidity	Source notation: ≤50% at 40°C
Storage temperature	-10°C to +55°C
Device temperature protection	Trip 85°C; automatic restoration at 65°C
Product dimensions	85 × 38 × 68mm, physically measured by amiciKart

Dimensions corrected: use the measured 85 × 38 × 68mm. Older manual and product-graphic dimensions are superseded. Allow suitable installation clearances.

Metering limitation: readings are for reference only, not a legal metering standard or billing basis.

Timing & voltage thresholds

"Default" values below are identified as defaults in the supplier sheet.

ID	Purpose	Adjustment range	Supplier default
P1	Power-on delay	1-999 seconds	5 seconds
P2	Recovery delay	1-999 seconds	30 seconds
P3	Timer OFF	OFF or 1-999 minutes	OFF
P4	Timer ON	OFF or 1-999 minutes	OFF
P5	Overvoltage threshold	130-300V or OFF	270V

P3 comes before P4

The supplier states that the P3 value must be changed before P4 can be adjusted. The timers run once only. To cancel an active timer, switch its setting to OFF.

Confirmed defaults for the supplied 230V model

amiciKart confirms P5/P6/P7/P8 defaults of **270/265/170/175V** for the supplied 230V unit. The lower set shown in the original appendix does not apply to this supplied version.

OFF is a setting, not a fault cure: disabling a protection function can leave the circuit without that function. Have the installer investigate repeated trips rather than disabling the limit.

Recovery & voltage response

Keep threshold, recovery and action-time settings distinct.

ID	Purpose	Adjustment range	Supplier default
P6	Overvoltage recovery	125-295V	265V
P7	Undervoltage threshold	OFF or 80-210V	170V
P8	Undervoltage recovery	85-215V	175V
P9	Voltage action time	0.1-10 seconds	0.5 seconds
P10	Voltage correction	-5% to +5%	0

Your confirmed voltage defaults

For the supplied 230V unit: P5 **270V**, P6 **265V**, P7 **170V** and P8 **175V**. Confirmed by amiciKart on 16 September 2026. An installer must still check suitability for the connected equipment.

This model uses P9 for voltage action time

For AS-AVP-5EN-63A the supplier explicitly shows **0.5 seconds** at P9, adjustable from 0.1 to 10 seconds. P7 on this model is the undervoltage threshold.

P10: only apply measurement correction after comparison with a suitable reference instrument by a qualified person. Correction is not a way to change the real supply voltage.

Current & advanced controls

Do not infer advanced behaviour from the menu label alone.

ID	Purpose	Adjustment range	Supplier default
P11	Overcurrent protection	0.1-63A or OFF	63A
P12	Current action time	0.1-10 seconds	1 second
P13	Current counter	OFF or 1-20	OFF
P14	Current correction	-5% to +5%	0
P15	Automatic reset	ON / OFF	ON
P16	Prepaid	OFF or 001-999	OFF
P17	Short-circuit protection	OFF; source also prints C19-C1	OFF
P18	Password	000-999	112*

P13: counts consecutive overcurrent events. At the selected limit, output switches OFF and requires manual restart. Investigate the cause before restarting.

P16: 001-999 sets a usage limit; output switches OFF when it is reached. Units and replenishment/reset steps remain unspecified. Obtain these before use; this is not a billing meter.

P17: the printed code notation is not explained. No short-circuit breaking capacity is supplied. Do not select a code by guesswork; the external circuit breakers on page 4 remain required.

P18: *amiciKart confirms the default is **112**, superseding 118 in the appendix. Factory reset is the advised recovery route. Password entry and selection of a new code are not documented.

Reset is not energy clearing

Use the correct button for the action you intend.



Power button: factory settings.

DOWN button: clear accumulated electrical energy.

Both long-press procedures require the device to be in its **OFF state**.

Restore factory settings

1. Record the current configuration.
2. Short press the Power button to put the device in OFF state.
3. While OFF, hold Power for **5 seconds**. The reported reset confirmation is "Power-On Delay Timer ON".
4. Check all settings before switching ON and returning to service.

Clear accumulated energy

Record the kWh reading if you need to keep it. With the device in OFF state, long press DOWN to clear electrical energy. The supplier does not say that a factory reset also clears kWh; treat these as separate operations.

The 5-second hold and reported confirmation above apply to factory reset. Their applicability to DOWN-button energy clearing remains unconfirmed. OFF is an operating state; it is not safe electrical isolation for wiring or servicing.

When something looks wrong

Observe first. Do not repeatedly reset an unresolved fault.

Observation	What to check next
No output after power-on	P1 may be timing. Check the display and have the installer verify supply, connections and the selected delay.
Output does not return after a trip	Check the condition that caused the trip, the recovery threshold, P2 delay and P15 automatic-reset setting.
Voltage or current trips repeat	Have the installer measure the supply/load and check thresholds. Do not raise limits or disable protection to hide the fault.
Device temperature is high	Supplier temperature protection trips at 85°C and restores at 65°C. Isolate safely if there are signs of heat damage; arrange inspection.
Timer ON cannot be adjusted	The source requires changing P3 before adjusting P4. Confirm the required timing sequence.
Readings differ from another meter	Have a qualified person compare with a suitable reference instrument before using P10 or P14 correction.
Settings cannot be saved or unlocked	Long press SET to save. For password recovery, record settings before factory reset (page 10); the confirmed default is 112. Contact support if access remains unclear.

Care: clean with a dry cloth. Avoid corrosive environments, strong sunlight and rain. Do not touch energised terminals. Disconnect all supplies before electrical work.

Contact amiciKart support

Keep your configuration

Record verified values after commissioning, and before any factory reset.

Installation date / location

Installer / contact

Product model / batch

Supply voltage / connected load

Setting	Value	Setting	Value
P1 / Power-on delay	_____	P2 / Recovery delay	_____
P3 / Timer OFF	_____	P4 / Timer ON	_____
P5 / Overvoltage	_____	P6 / OV recovery	_____
P7 / Undervoltage	_____	P8 / UV recovery	_____
P9 / Voltage time	_____	P10 / V correction	_____
P11 / Current limit	_____	P12 / Current time	_____
P13 / Counter	_____	P14 / A correction	_____
P15 / Auto reset	_____	P16 / Prepaid	_____
P17 / Short circuit	_____	P18 / Password*	_____

* Keep access codes secure. Use a private reference rather than writing a changed password in a publicly shared copy.

Commissioning checks: terminal identity, source connections, suitable circuit breakers, load/cable suitability, retained settings and functional checks.

Open this product on amiciKart

Supplier reference appendix

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

The rewritten guide separates operation, technical data and settings for easier reading. The original pages are retained so you and your installer can compare the supplier wording and symbols.

Use with the matching hardware

Match the AS-AVP-5EN-63A front label. Use the confirmed 230V default set: P5/P6/P7/P8 = 270/265/170/175V. The lower set in the appendix does not apply. The appendix password 118 is superseded by the confirmed default 112. P17 code notation still requires model-specific guidance.

Use the corrected measured dimensions

amiciKart reports a physical measurement of **85 × 38 × 68mm**. This supersedes 85 × 36 × 66mm in the original manual and 82 × 38 × 68mm in the older product graphic.

Original pages are zoomable

Appendix A: precautions and characteristics.
Appendix B: technical table, display and button actions.
Appendix C: complete P1-P18 supplier menu.

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Revised with the supplied clarification workbook. Original supplier pages follow unchanged.

Instruction Manual



Matters needing attention

1. A circuit breaker must be installed at both the input (product front end) and load ends for use with this product.
2. The equipment must be installed by qualified professionals.
3. Before operating the device, disconnect all power supplies and do not touch any terminal when the power supply is connected.
4. Verify that terminals are properly connected.
5. Do not use the equipment in places that may be corroded by gas, strong sunlight and rain.
6. Clean equipment with a dry cloth.
7. Failure to comply with these instructions will result in serious injury or serious accident.

Product characteristics

- Microcontroller-based.
- Digital display of working voltage, current, electric energy and frequency.
- Measurement accuracy is 0.5 class.
- Protection temperature: 85°C (device will trip)
Reset hysteresis: 65°C (device will restore automatically when temperature drops to 65°C)
- The energy metering data is for reference only and shall not be used as a legal metering standard or billing basis.
- Key setting parameter.
- DIN rail mounting.

Technical data

Rated supply voltage	AC 120V/AC 230V	Mechanical life	10 ⁶
Operating voltage range	AC80-300V	Protection class	IP20
Rated frequency	50/60Hz	Pollution degree	3
Hysteresis	Overvoltage:5V Undervoltage:5V	Altitude	<2000m
Measurement accuracy	0.5 class	Operating temperature	-5°C~40°C
Rated insulation voltage	450V	Humidity	≤50%or40°C
Output contact	1NO	Storage temperature	-10°C~55°C
Electrical life	10 ⁵	Product size	85*36*66mm

Display panel



 **Menu setting key:** to enter the parameter setting menu

 **Up key**
In menu mode: Short press to increase the parameter value.
Out of menu mode: Short press to view the device temperature.

 **Down key**
In menu: Short press to decrease values.
Out of menu: Short press to start timing, Timer icon lights up;
Switch to OFF state, long press to clear electric energy.

 **Short press to turn on/off**
When in OFF state, long press to restore factory settings.

Setup Menu

