DATASHEET

CATEGORY: OVERVOLTAGES ACCESORIES
NAME: **Power Supply Tester**
REFERENCE: **AT-3503**

PRODUCT DESCRIPTION

Power Supply Tester

Provided with a screen showing the voltages and frequency of the line and the earth impedance.

Alarms are also displayed in the screen.

Light button for improving the view of the screen.

RS485 serial communication, Modbus protocol, which allows the management and monitoring of voltages, impedance and alarms from a remote unit.

It has an RTC (Real Time Clock).

Two voltage-free contact outputs that activate in case of voltage and/or impedance alarm.

The user can fix the limit for impedance alarm ranging between 0 and 100 ohms. Default value is 25 ohms.

Voltage limits depend on the type of line where the device is installed: 277 / 230V or 120V.

Limits for a three-phase line with 120V between line and neutral are 90V and 150V. If the voltage is 230V, then limits are 190V and 265V (277V -> 240V y 315V).

Self-configurable device, that automatically determines the type of the line where it is connected.

Able to store up to 50 alarms of each monitored variable (L1 voltage, L2 voltage, L3 voltage and impedance).

The menu allows the user to interact with the device:
- Impedance alarm configuration.
- Voltage limits configuration.
- Voltage events display.
- Impedance events display.
- Delete all events.
- Reset to standardised values.
- Outputs test.
- Exit menu.

DATASHEET

Reference	AT-3503

Date: 12/01/2023

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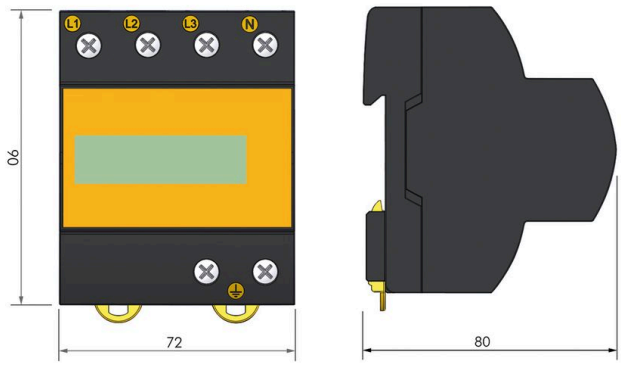
Nominal voltage (L-N) / (L-L)	120 VAC / 230 VAC / 277 VAC - 230 VAC / 400 VAC / 480 VAC
Maximum continuous operating voltage	480 VAC
Nominal frecuency	50 - 60 Hz
Impedance readings	From 1Ω to >100Ω
Working temperature	-10 °C to +70 °C
Dimensions	72 x 90 x 80 mm
Protector location	Indoor
Type of connection	Parallel
Nr. of poles	3L + N + GND
Enclosure material	Polyamide
Enclosure protection	IP20
Self-extinguishing enclosure	V-0 Type according to EN IEC 60707 (UL94)
Connections (L/N/GND)	Min / max multi-stranded section: 4 mm²to 35 mm²
Voltage-free contact	Multi-stranded section: 1.5 mm²
Contact output	Normally open / Common / Normally closed
Working voltage / current	250V / 0.5A
Voltage variation alarm for 120 VAC lines	90 VAC undervoltage and 150 VAC overvoltage
Voltage variation alarm for 230 VAC lines	190 VAC undervoltage and 265 VAC overvoltage
Voltage variation alarm for 277 VAC lines	240 VAC undervoltage and 315 VAC overvoltage
Impedance variation alarm	Programmable, default 25 Ω

> TESTS AND CERTIFICATIONS

EN IEC 61326-1:2013

EN IEC 61010-1:2010

> Diagram (mm)



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INSTRUCTIONS

> INSTALLATION

The device must be installed in parallel with the low voltage power supply line, downstream the power control circuit breaker (ICP), with connections to phases, neutral and earth.

Installation should be carried out without power in the line.

Recommended for controlling earth impedance of certain boards.

Self-configurable Automatically detects the line voltage and self-fixes the temporary overvoltage limits.

It is recommended to install it always together with the appropriate temporary and transient overvoltage protectors.

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