

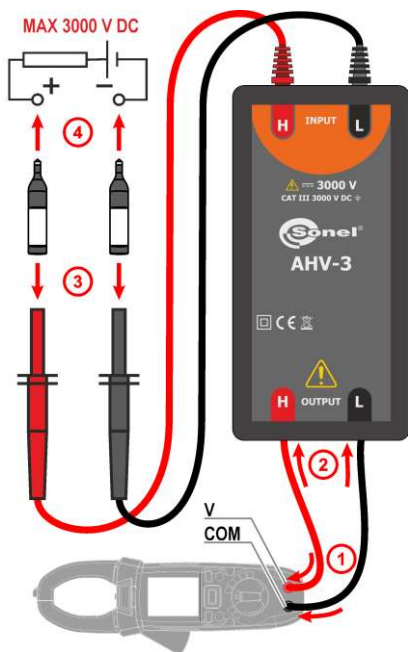


AHV-3 ADAPTER



USER MANUAL

Version 1.00 21.02.2023



- AHV-3 adapter is not a stand-alone measuring device. It is an accessory designed to cooperate with a dedicated meter (CMP-1015-PV) and selected devices that measure DC voltage (with input impedance of **10 MΩ for V DC measurement**). The rules for using the adapter and performing measurements with it can be found in the meter's manual. Please get acquainted with it before proceeding with measurements.
- The manufacturer reserves the right to introduce changes in the design, accessories and technical data of the adapter.

1 General information

1.1 Safety symbols

The following international symbols are used in the device and/or in this manual:

| | |
|--|---|
| | Warning. See explanation in the manual |
| | Ground |
| | Double insulation (protection class) |
| | Declaration of Conformity with EU directives (Conformité Européenne) |
| | Do not dispose of with other household waste |
| | DC current/voltage |
| | Attention, risk of electric shock. The device under voltage of 2500 V |

Measurement categories according to EN IEC 61010-2-030:

- CAT II** – concerns measurements performed in circuits directly connected to low voltage installations,
- CAT III** – concerns measurements performed in buildings installations,
- CAT IV** – concerns measurements performed at the source of low voltage installation.

1.2 Safety

AHV-3 adapter is used to measure high voltages in collaboration with a master meter. In order to provide conditions for correct operation, the following recommendations must be observed:

- Before you proceed to operate the device, acquaint yourself thoroughly with this manual and observe the safety regulations and specifications defined by the producer
 - Any application that differs from those specified in the present manual may result in a damage to the device and constitute a source of danger for the user.
 - The adapter should be operated only by suitably qualified persons having the necessary permissions to carry out measurements on electrical systems. Operating the adapter by unauthorised personnel may result in damage to the device and constitute a source of danger for the user.
 - The adapter must not be used for networks and devices in areas with special conditions, e.g. fire-risk and explosive-risk areas.
 - It is unacceptable to operate the device when:
 - ⇒ it is damaged and completely or partially out of order,
 - ⇒ its cable insulation is damaged,
 - ⇒ it was stored for an excessive period of time in disadvantageous conditions (e.g. excessive humidity).
- After moving the device from a cool to a warm place with a high level of relative humidity, do not start measurements until the device is warmed up to the ambient temperature (approximately 30 minutes)**

- Repairs may be performed only by an authorized service point.

2 Description of outputs

INPUT-H – cable to connect the adapter to DC+ high voltage.

INPUT-L – cable to connect the adapter to DC- high voltage.

OUTPUT-H – connection socket for the cable connecting the adapter with V socket of the master meter.

OUTPUT-L – connection socket for the cable connecting the adapter with COM socket of the master meter.



ATTENTION!

- The adapter may be damaged when connected to the voltage exceeding 3000 V DC.
- First connect the adapter to the meter, and then the adapter to the tested object.

3 Cleaning and maintenance



ATTENTION!

Use only the maintenance methods specified by the manufacturer in this manual.

The adapter may be cleaned with a soft, damp cloth using all-purpose detergents. Do not use any solvents or cleaning agents which may damage the casing (powders, pastes, etc.).

The electronic system of the adapter does not require maintenance.

4 Storage

Before storage, make sure that the adapter is dry.

5 Dismantling and utilization

Worn-out electric and electronic equipment should be gathered selectively, i.e. it must not be placed with waste of another kind.

Worn-out electronic equipment should be sent to a collection point in accordance with the regulations valid in a given region.

Before the equipment is sent to a collection point, do not dismantle any elements.

Observe local regulations concerning disposal of packages, waste batteries and accumulators.

6 Technical data

Parameters of compatible master meter

a) Input impedance.....10 MΩ (V DC)

Basic technical data

a) measuring range0...3000 V DC
 b) ratio (INPUT / OUTPUT) 10 V / 1 V
 c) przelicznik wyniku
 ▪ CMP-1015-PV meter (HV DC measurement) 1 x m.v.
 ▪ master meter (V DC measurement) 10 x m.v.
 d) accuracy of CMP-1015-PV (HV DC measurement)
 ▪ U ≤ 1000 V DCinspecified
 ▪ 1000 V DC < U ≤ 3000 V DC ±(0,5% m.v. + 5 digits)
 e) accuracy of master meter (V DC measurement)
 ▪ 0 V DC ...3000 V DC as for V DC in range of 0...300 V
 f) input resistance with master meter connected 50 MΩ m.v. – measured value

Other technical data

a) insulation type acc. to EN 61010-1 double
 b) measurement cat. acc. to EN IEC 61010-2-030 III 3000 V DC
 c) protection class acc. to EN 60529 IP54
 d) test leads length 1.2 m
 e) dimensions 130 x 65 x 26 mm
 f) weight (with cables) 275 g
 g) operating temperature -5°C...+40°C
 h) storage temperature -20°C...+60°C
 i) humidity 20%...90%
 j) reference humidity 30%

7 Standard accessories

The standard set of equipment supplied by the manufacturer includes:

- 2x pin probe 3 kV – WASONBL3KV,
- test leads set for CMM/CMP – WAPRZCMX1,
- M-13 carrying case – WAFUTM13,
- declaration of verification

The current list of accessories can be found on the manufacturer's website.

8 Manufacturer

The manufacturer of the device and provider of guarantee and post-guarantee service:

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ATTENTION!

Service repairs must be performed only by the manufacturer.