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Sonel PVM-1020 C-PV Current Clamp



Product Information

Specifications

- **Model:** CGI POMIAROWE C-PV
- **Version:** 1.00
- **Date:** 13.05.2025

Product Usage Instructions

Description

- The CGI POMIAROWE C-PV meter should be connected to the MPI-540-PV meter via the WAADACPV adapter.

Safety

- Ensure that the current indication is closest to zero.

Operation

- Maintain the slot (created from the core front surfaces) in perfect cleanliness.

Cleaning and Maintenance

- **Caution:** Only use the maintenance methods provided by the manufacturer in this manual.

- Remove dust from the slot using a soft, dry cloth. Periodically wipe the available iron core slot with an oil-soaked cloth to prevent corrosion.
- Dispose of used electrical and electronic equipment selectively, without mixing with other types of waste.

Reference Conditions

- Ensure alignment with the jaws and maintain a constant magnetic field.

Additional Information

- (Additional information from the manual can be added here as needed.)

Description

- The C-PV clamp is used for ISC DC measurements and DC measurements of the modules at the input of the inverter.
- For the MPI-540-PV meter, connect the clamp via the WAADACPV adapter.

Safety



- **NOTE!** Do not expose the clamp to water.

Operation

- To measure the current, open the clamp slightly by turning the clasp, clamp it on the conductor with flowing current and roughly centre the conductor relative to the clamp loop.

Correcting zero indication for DC measurements

- Connect the clamps to the meter, and turn on the clamps.
- Use the DC ZERO knob to reset the clamps to the current indication closest to zero.
- The gap (formed by the faces of the core) should be kept perfectly clean.

Cleaning and maintenance



- **NOTE!** Apply only maintenance methods specified by the manufacturer in this manual.
- Before cleaning, disconnect the clamp from the tested circuit and the meter. Do not spray the clamps with water.
- Remove the dust from the gap with a soft and dry cloth. Periodically wipe the accessible iron part of the jaws with an oil-soaked cloth to prevent possible corrosion.
- The clamp may be cleaned with a soft, damp cloth using all-purpose detergents. Do not use any solvents.

Dismantling and utilisation

- Worn-out electric and electronic equipment should be gathered selectively, i.e. it must not be placed with waste of another kind.
- Worn-out electric equipment should be sent to a collection point under the law on waste electrical and electronic equipment.
- Before the equipment is sent to a collection point, do not dismantle any elements.
- Observe the local regulations concerning disposal of packages.

Reference conditions

- **a)** temperature $23 \pm 5^{\circ}\text{C}$
- **b)** relative humidity 70%
- **c)** power supply 3 V
- **d)** conductor position centred in the jaws
- **e)** permanent magnetic field..... $<40 \text{ A/m}$ (Earth's magnetic field)
- **f)** variable, external magnetic field none
- **g)** external electric field none

Technical data

Basic technical data

- **a) accuracy**

- **range:** 40 A DC 0...40.0 A DC: $\pm(2.5\% + 0,1 \text{ A})$
- **range:** 400 A DC 0...400 A DC: $\pm(2.8\% + 0,5 \text{ A})$
- **range:** 40 A AC (50/60 Hz) ... 0...40.0 A AC: $\pm(2.5\% + 0,1 \text{ A})$
- **range:** 400 A AC (50/60 Hz) .. 0...400 A AC: $\pm(2.8\% + 0,5 \text{ A})$
- **b) output level**
 - **range of** 40 A 10 mV/A
 - **range of** 400 A 1 mV/A
 - **c) output impedance** 1320 Ω
- When using the clamp with a SONEC meter, the total measurement accuracy of the measuring system of the meter and clamp is specified in the manual of a given meter.
- The accuracy of the clamp given in this manual is not the sum of the accuracy of the meter and the accuracy of the clamp.

Other technical data

- **a)** insulation type acc. to IEC 61010-1 double
- **b)** measurement category acc. to IEC 61010-1
..... IV 300 V, III 600 V..... max. 1000 V DC only for isolated conductors
- **c)** pollution degree 2
- **d)** ingress protection acc. to IEC 60529 IP40
- **e)** power supply.....2x AAA 1.5 V battery
- **f)** dimensions..... 150 × 58 × 35 mm
- **g)** weight 205 g
- **h)** jaws opening distance 32 mm
- **i)** height of open jaws 84 mm
- **j)** maximum diameter of tested cable $\varnothing 30 \text{ mm}$
- **k)** length of clamp cable..... 0.9 m
- **l)** operating temperature 0°C...+50°C
- **m)** storage temperature -20...+70°C
- **n)** operational relative humidity $\leq 70\%$
- **o)** storage relative humidity $\leq 80\%$
- **p)** altitude a.s.l. $\leq 2000 \text{ m}$
- **q)** the product meets the EMC requirements according to


Manufacturer

- The manufacturer also provides guarantees and post-guarantee services.
- **SONEL S.A.**
- **Wokulskiego 11**
- **58-100 Świdnica**
- **Poland**
- **tel. + +48748841053 (Customer Service)**
- **e-mail: customerservice@sonel.com**
- **web page: www.sonel.com**

FAQ

- **Q: How often should I clean the meter?**
 - **A:** It is recommended to clean the meter periodically or when dust accumulation is visible to ensure accurate readings.
- **Q: Can I use a different adapter than WAADACPV?**
 - **A:** No, it is essential to use the WAADACPV adapter for proper connection and functionality.

Documents / Resources

	Sonel PVM-1020 C-PV Current Clamp [pdf] User Manual PVM-1020 C-PV Current Clamp, PVM-1020, C-PV Current Clamp, Current Clamp, Clamp
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References

- [User Manual](#)

◆ C-PV Current Clamp, Clamp, Current Clamp, PVM-1020, PVM-1020 C-PV Current Clamp,

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