OPERATING INSTRUCTIONS
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GOSSEN METRAWATT
GMC-INSTRUMENTS GROUP

WZ1001

Clamp on current transformer

1 SAFETY INSTRUCTIONS



Read and follow these instructions carefully and completely in order to ensure safe and proper use.
The instructions must be made available to all persons who use the product.
Keep for future reference.

Handling

- Carefully and completely read and adhere to the product documentation for the associated test/measuring instrument.
- Use the product only for its intended purpose in accordance with this documentation and the documentation for the associated test/measuring instrument.
- The product may only be used by qualified electricians in commercial settings. It is not a consumer product.
- Wear suitable and appropriate personal protective equipment (PPE) whenever working with the instrument.
- Use the product in undamaged condition only.
  Inspect the product before use. Pay particular attention to damage, interrupted insulation or kinked cables.
  Damaged components must be replaced immediately.
- If the product does not function correctly, discontinue use of the product and dispose of it properly.
- If there are any signs of interior damage to the product (e. g. loose parts in the housing), permanently remove it from operation and secure it against inadvertent use.
- If the product is damaged during use, for example if it's dropped, discontinue use of the product and dispose of it properly.
- Products and accessories from Gossen Metrawatt GmbH are designed to function ideally with products from Gossen Metrawatt GmbH which are specifically intended for this purpose. Unless otherwise expressly confirmed in writing by Gossen Metrawatt GmbH, they are neither intended nor suited for use with other products.

Operating Instructions

- Do not use the product after long periods of storage under unfavorable conditions (e. g. humidity, dust or extreme temperature).
- Do not use the product after extraordinary stressing due to transport.
- Do not expose the product to direct sunlight for lengthy periods of time. Overheating may cause damage to the product.
- Only use the product within the limits specified in the technical data and operating conditions (ambient conditions, IP protections code, measuring category etc.).
- Do not use the product in potentially explosive atmospheres. Danger of explosion!
- Do not use the product in atmospheres subject to fire hazard. Danger of fire!
- Implement adequate measures for protection against electrostatic discharge (ESD).

Measurement Cables and Establishing Contact

- Plugging in the measurement cables must not necessitate any undue force.
- Fully unroll all measurement cables before starting a test/measurement. Never perform a test/measurement with the measurement cable rolled up.
- Avoid short circuits due to incorrectly connected measurement cables.
- Ensure appropriate contacting (e. g. on the test probes, crocodile clips, Kelvin probes etc.).
- Do not move or remove contacts (e. g. the test probes, alligator clips, the Kelvin probes etc.) until testing/measurement has been completed.

2 APPLICATION

Please read this important information!

2.1 INTENDED USE

The clamp-on current transformer, hereinafter referred to as product, is especially suited as accessory for measurements with the clipping multimeter METRALINE DM 61, but can also be used with comparable multimeters.
The product allows for the interruption-free measurement of alternating current by enclosing the electrical conductor or bus bar. The application around and the removal from hazardous live conductor is permitted.
Safety of the user, as well as that of the product, is only assured when it's used for its intended purpose.

Connecting and Removing the product



DANGER

High currents and voltages!

Electric shock when connecting and removing the clamp.

- Take applicable safety precautions.
- Always keep your fingers behind the tactile barrier of the clamp.

Make sure that the secondary circuit is connected to the measuring circuit at the multimeter first.
Be sure to remove the clamp from the primary conductor before the connections at the multimeter are disengaged.
The further use of the clamp and the measurement are described in the operating instructions of the associated test/measuring instrument.

2.2 USE FOR OTHER THAN INTENDED PURPOSE

Using the device for any purposes other than those described in these device operating instructions is contrary to use for intended purpose. Use for purposes other than those intended may result in unforeseeable damage!

2.3 REPAIRS AND MODIFICATIONS

Unauthorized modification of the product is prohibited.

2.4 LIABILITY AND GUARANTEE

Liability and guarantee granted by Gossen Metrawatt GmbH comply with the applicable contractual and mandatory legal regulations.

3 PRODUCT

3.1 SCOPE OF DELIVERY

1 Clamp-on current transformer WZ1001(Z194A)
1 Operating instruction (ths document)

3.2 SYMBOLS ON THE PRODUCT

Symbol	Meaning
	Warning concerning a point of danger (attention, observe documentation!)
	European conformity marking
	The product may not be disposed of with household trash. You are required to comply with all applicable local regulations. Further information regarding disposal can be found on our website.

Symbol	Meaning
	Application around and removal from hazardous live conductor is permitted.
	Doubles Insulation (Degree of protection II)

3.3 RELEVANT STANDARDS

The product is built in accordance with the following safety regulations:.

DIN EN 61010-031	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 31: Safety requirements for hand-held probe assemblies for electrical measurement and testing
DIN EN 61010-2-030	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits

3.4 TECHNICAL DATA

Nominal primary current	1 ... 1000 A AC
Output signal	1 mA AC / 1 A AC
Transmission ratio Input : output	1000 : 1
Accuracy / max.error	Class 1 (2.5 VA) (for current range from 1 A to 1000 A, 50 Hz)
Max. operating voltage	CAT III 600 V per IEC 61010
Frequency range	40 Hz ... 1 kHz
Jaw opening / conductor diameter	max. 43 mm
Dimensions (W x H x D)	92 x 39 x 220 mm
Weight	approx. 650 g
Cable length	1.5 m

4 STORAGE AND TRANSPORT

ATTENTION

Improper Storage

Damage to the product.

- Store the product in a protected location and only within the limits of the permissible ambient conditions (➪ "Technical Data" 🗎2).

ATTENTION

Improper Transport

Damage to the product.

- Transport the product only within the limits of the permissible ambient conditions (➪ "Technical Data" 🗎2).
- Only transport the product adequately protected.

5 MAINTENANCE

Cleaning

DANGER

Life endangering due to electric shock!

Since the product conducts electrical current, there is always a risk of electric shock. This can be fatal or cause serious injuries.

- The product must be voltage-free before and during cleaning. Disconnect the product from the test/measuring instrument to this end.
- Never immerse the accessory in water or other liquids.
- Never touch the accessory with wet or moist hands.

ATTENTION

Unsuitable Cleaning Agents

Unsuitable cleaning agents such as aggressive or abrasive cleansers result in damage to the product.

- Use a lightly oiled cloth to clean the surfaces between the jaws.
- Use a cloth which has been dampened with soapy water to remove contamination and dust.
- Avoid the use of cleansers, abrasives or solvents.

Keep the outside surfaces of the product and any accessories clean and dry.

Testing

Measure the resistance at the secondary circuit with an ohmmeter on a regular basis. If loose contacts become apparent, remove the product from service

6 CONTACT, SUPPORT AND SERVICE

Gossen Metrawatt GmbH can be reached directly and simply – we have a single number for everything! Whether you require support or training, or have an individual inquiry, we can answer all of your questions here:

+49 911 8602-0	Monday – Thursday: Friday:	8 a. m. to 4 p. m. 8 a. m. to 2 p. m.
Or contact us by e-mail at:	info@gossenmetrawatt.com	

Do you prefer support by e-mail?

Measuring and Test Technology:	support@gossenmetrawatt.com
Industrial Measuring Technology:	support.industrie@gossenmetrawatt.com

Please contact GMC-I Service GmbH for repairs, replacement parts and calibration[1]

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1. DAkkS calibration laboratory per DIN EN ISO/IEC 17025. Accredited by the Deutscje Akkreditierungsstelle GmbH under reference number D-K-15080-01-01.

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