

MAVOWATT 210 Rogowski

Flexible AC Current Probe based on the Rogowski Principle

3-447-116-03 1/4.22

- Flexible probe for high-accuracy measurements of AC current by being connected to MAVOWATT 210
- Wide range of applications in any three-phase system
- Designed for applications where space is limited and rigid-body current probes won't fit
- Broad frequency range is well-suited for measuring harmonics and power quality
- Precise measurements even with low currents, due to wide dynamic range and high sensor sensitivity



Applications

The MAVOWATT 210 Rogowski are AC current probes utilizing the Rogowski principle. They can be used to measure AC current by being connected to MAVOWATT 210.

The flexible probes allow current measurements on conductors that are hard to reach. The flexible current transformers can be placed around one or several conductors of any type and design (i.e. insulated cable, busbars, pipes).

The MAVOWATT 210 Rogowski current probes are designed for AC measurements in any desired 3-phase system.

Features

- High accuracy measurements for rigorous applications
- Protection type IP61
- High level of safety for the user:
 - Measurement category 1000 V / CAT III
 - 600 V / CAT IV
 - Unlimited overload capacity
 - Rated for continuous use
- Easy to operate in restricted space thanks to small sensor cross-section

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Technical Data

Mechanical Design

Protection **IP61** Coil length 40 cm Coil diameter 15.5 mm Window size 10.6 cm Wire length 2 m

Ambient Conditions

Operating temperature -20 ... +70 °C Relative humidity 5% to 95%,

no condensation allowed

Electrical Safety

Measuring category 1000 V CAT III, 600 V CAT IV

Pollution degree 2

7400 Vac at 50/60 Hz for 1 minute Dielectric strength

Electromagnetic Compatibility

Interference emission EN 61326-2 class B

EN 61326-2 Interference immunity

Influencing Quantities

45 Hz - 65 Hz Frequency range Frequency response 10 Hz - 20 kHz

Accuracy 0.5 % per IEEE C57.13 class 0.6

Positioning error ±0.1%

Relevant Standards

The instrument has been manufactured and tested in accordance with the following safety regulations:

DIN EN Electrical Equipment for Measurement,

61326 Control and Laboratory Use -

EMC Requirements

DIN EN 61010-1 Safety Requirements of Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Require-

ments

DIN FN

Safety Requirements of Electrical Equip-61010-1-031 ment for Measurement, Control, and Lab-

oratory Use - Part 031: Safety Requirements for Hand-held Probe Assemblies for Electrical Measurement and Test

DIN EN 61010-2-032

ment for Measurement, Control, and Laboratory Use - Part 2-032: Particular Requirements for Hand-held and Hand-manipulated Current Sensors for Electrical

Safety Requirements of Electrical Equip-

Test and Measurement

Differences in Features

Measurement Range

MAVOWATT 210 Rogowski 500/40 50 A - 500 A MAVOWATT 210 Rogowski 1500/40 150 A - 1500 A MAVOWATT 210 Rogowski 3000/40 300 A - 3000 A

Order Information

Туре	Article number	Description
		Flexible AC current probe based on the Rogowski principle, suitable for MAVOWATT 210
MAVOWATT 210 Rogowski 500/40	Z840A	50 – 500 A, measuring head length 40 cm
MAVOWATT 210 Rogowski 1500/40	Z840B	150 – 1500 A, measuring head length 40 cm
MAVOWATT 210 Rogowski 3000/40	Z840C	300 – 3000 A, measuring head length 40 cm

For additional information regarding accessories please refer to

- Measuring Instruments and Testers catalog
- www.gossenmetrawatt.com

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