

RCMC-5000-AO-P**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image**Rogowski coil**

A Rogowski coil is a closed air coil without a ferromagnetic core used for floating potential measurement of AC and pulse currents. Measurement with the Rogowski coil is used widely in technology, as it can be retroactively integrated without separating the primary electric circuit in existing systems. Because this method shows no saturation effect, even the smallest currents and high-frequency harmonics can be measured without loss of accuracy.

General ordering data

Version	Measuring transducer, every Rogowski coil, 100... 5000 A, Output : analogue V / mA
Order No.	2593410000
Type	RCMC-5000-AO-P
GTIN (EAN)	4050118647754
Qty.	1 pc(s).

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Catalogue status 13.01.2024 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	78 mm	Depth (inches)	3.071 inch
Height	100 mm	Height (inches)	3.937 inch
Width	23.1 mm	Width (inches)	0.909 inch
Net weight	58 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity	5...95 %, no condensation		

Dimensions of live conductors

Type of conductor	Insulated conductor only	Installation location	Indoor use
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Electrical attributes

Frequency band	50...60 Hz	Primary current	5,000 A
Secondary voltage	22,5 mV (@ 50Hz I _{primary} = 1 kA)		

Technical properties

Protection degree	IP20
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Input

Input measurement range	100 A, 200 A, 300 A, 400 A, 500 A, 600 A, 800 A, 1000 A, 1500 A, 2000 A, 4000 A, 5000 A	Input signal	every Weidmüller Rogowski coil RCMA-B22-D...
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Output

Load impedance current	≤ 500 Ω	Output current	0...20 mA, 4...20 mA
Output voltage, note	0...5 V DC, 0...10 V DC, 0...225 mV AC, 0...333 mV AC	load impedance voltage	≥ 1 kΩ

General data

Accuracy	<0.5 % of measuring range	Configuration	Keys and LED display
Current consumption	200 mA typical	Galvanic isolation	between input/output/supply
Linearity		Standard	EN 61010-1: 2010, EN 61010-2-030:2010, EN 61326-1: 2013, EN 61000-6-2:2005, EN 61000-6-3:2007
Temperature coefficient	± 0.1 % typ. ≤ 0.015 % / °C	Voltage supply	24 V DC ± 25 %

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Technical data

Insulation coordination

Galvanic isolation	between input/output/ supply	Insulation voltage	1.5 kV AC 1 min.
Pollution severity	2	Standard	EN 61010-1: 2010, EN 61010-2-030:2010, EN 61326-1: 2013, EN 61000-6-2:2005, EN 61000-6-3:2007

Classifications

ETIM 6.0	EC002475	ETIM 7.0	EC002475
ETIM 8.0	EC002475	ETIM 9.0	EC002475
ECLASS 9.0	27-21-01-23	ECLASS 9.1	27-21-01-23
ECLASS 10.0	27-21-01-23	ECLASS 11.0	27-21-01-23
ECLASS 12.0	27-21-01-23	ECLASS 13.0	27210123

Important note

Product information

The **RCMC-5000-XX** measuring transducer is designed for electronic measurement of AC current. The RCMC-5000-XX measuring transducer may only be used together with a Weidmüller RCMA-B22-DXX Rogowski coil.

Functional description

The RCMC-5000-XX measuring transducer converts the signal from the Rogowski coil into an analogue output signal with high phase fidelity.

The device is configured using two front buttons.

LEDs display the operating and configuration status.

Features

- 12 selectable current measuring ranges
- USB connection: exclusively for power supply!

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E469563

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format

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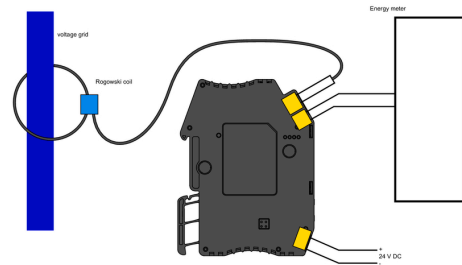
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Drawings

Application



use with Rogowski coil



- 5000A ● 0-20mA
- 4000A ● 4-20mA
- 2000A ● 0-5V
- 1500A ● 0-10V
- 1000A ● 225mV \sim
- 800A ● 333mV \sim
- 600A ●
- 500A ●
- 400A ●
- 300A ●
- 200A ●
- 100A ●
- SELECT ●
- 
- EDIT ●