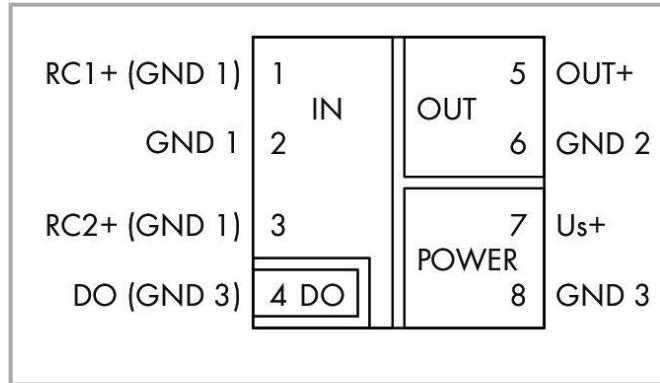
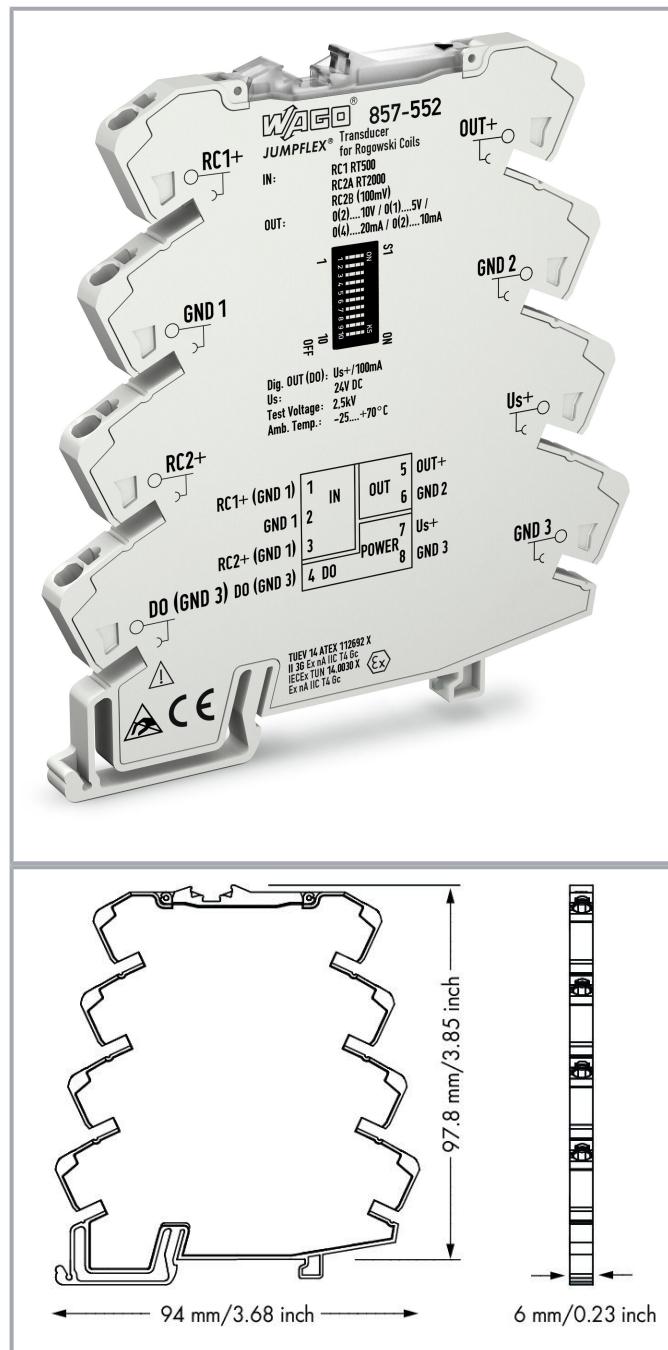


Data sheet | Item number: 857-552

Current signal conditioner; Input for Rogowski coils; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

www.wago.com/857-552



857-552
DIP Switch Adjustability
• = ON Default

DIP Switch S1	Input Signal	RC Configuration Input	Filter	4	5	6	Output Signal
1	RC1 = RT500 from LEM	RC2A = RT2000 from LEM	off	•	•	•	0...20 mA
• RC2	• RC2B = 22.5 mV/A	• active	•	•	•	•	0...10 V
			•	•	•	•	2...10 V
			•	•	•	•	0...10 mA
			•	•	•	•	2...10 mA
			•	•	•	•	0...5 V
			•	•	•	•	1...5 V

Filter:
The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g., during trailing edge flows).

DIP Switch S1	Measurement Range Underflow	Measurement Range Overflow	Overshoot (Input Signal - End Value + 20%)	9 10	Digital Output DO Signaling
7 8	Lower limit of measurement range +5 %	Upper limit of measurement range +25 %	Upper limit of measurement range +5 %	•	DO not active
•	Lower limit of measurement range	Upper limit of measurement range	Upper limit of measurement range +5 %	•	DO U _o + switching
•	Lower limit of measurement range	Upper limit of measurement range	Lower limit of measurement range +5 %	• •	DO GND switching
•	Lower limit of measurement range	Upper limit of measurement range	Upper limit of measurement range		*acc.to NAMUR NE 43

Subject to changes. Please also observe the further product documentation!

Item description

Short description:

WAGO's Rogowski signal conditioner records RMS values from alternating currents via Rogowski coil, converting the input signal into an standard analog signal on the output side.

Features:

- PC configuration interface
- Supports different Rogowski coil types
- Digital switching output (configurable switching thresholds)
- Configurable output signal
- Configuration via DIP switch
- 3-way electrical isolation with 2.5 kV test voltage
- No current bar interruption during installation
- Measurement range overflow indication

Data

Notes

Note

Additional setting options via WAGO Interface Configuration Software or WAGO Interface Configuration App

Technical data

Configuration

Configuration options	DIP switch WAGO Interface Configuration Software WAGO Interface Configuration App
-----------------------	---

Input

Input signal type	Voltage
Input signal (voltage)	50 Hz sinusoidal signals: AC 10.05 mV (RC1); AC 40.2 mV (RC2A); AC 90 mV (RC2B)
Sensitivity	RC2B: 22.5 mV/kA
Measurement range (current)	AC 500 A (RC1); AC 2000 A (RC2A); AC 4000 A (RC2B)
Frequency range	50 Hz (Sinusoidal signals)
Response threshold	≤ 1 % (of measurement range nominal value)
Resolution (current)	250 mA (RC1) 1 A (RC2A)

Subject to changes. Please also observe the further product documentation!

1.5 A (RC2B)

Output (analog)

Output signal type	Current Voltage
Output signal (voltage)	0 ... 5 V; 1 ... 5 V; 0 ... 10 V; 2 ... 10 V
Output signal (current)	0 ... 10 mA; 2 ... 10 mA; 0 ... 20 mA; 4 ... 20 mA
Load impedance (voltage output)	$\geq 1 \text{ k}\Omega$
Load impedance (current output)	$\leq 600 \Omega$

Output (digital)

Switching voltage (DO) max.	Supply voltage applied
Continuous current (DO) max.	100 mA (no internal restriction)
Number of switching thresholds (DO)	1 (adjustable)

Signal Processing

Limit frequency	2 kHz
Software filter (adjustable)	Moving average value (filter level: 30)
Step response (typ.)	60 ms

Measurement Error

Transmission error (max.)	$\leq 1\%$ (of the full scale value)
Temperature coefficient	$\leq 0.01\%/\text{K}$

Supply

Power supply type	24 VDC
Nominal supply voltage U_S	DC 24 V
Supply voltage range	$\pm 30\%$
Current consumption at nominal supply voltage	$\leq 40 \text{ mA} (+ I_{DO})$

Safety and protection

Protection type	IP20
-----------------	------

Test voltage

Test voltage (input/output/supply)	AC 2.5 kV; 50 Hz; 1 min
------------------------------------	-------------------------

Subject to changes. Please also observe the further product documentation!

Connection data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm ² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

Physical data

Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 inches

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Fire load	0.418 MJ
Weight	35.1 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications

Conformity marking	CE
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Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-21-01-23
eCl@ss 9.0	27-21-01-23
ETIM 8.0	EC002475
ETIM 7.0	EC002475
PU (SPU)	1 pcs

Subject to changes. Please also observe the further product documentation!

Packaging type	bag
Country of origin	DE
GTIN	4050821476917
Customs tariff number	85437090300

Environmental Product Compliance

CAS-No.	7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	1f195258-d879-4341-9432-55132a5988a4
SCIP notification number (Belgium)	7814c94f-657c-4f03-83f0-8d7593e6728c
SCIP notification number (Bulgaria)	018c696b-7940-4720-a5c3-00dd668a954d
SCIP notification number (Czech Republic)	004a50ca-f1d7-4851-9876-6e3e26a6990e
SCIP notification number (Denmark)	a59197af-a118-401f-819c-6449ecf2a26d
SCIP notification number (Finland)	6287e118-0731-40fa-98e2-c8475af11b0f
SCIP notification number (France)	467a5cc3-0b72-4f42-ace2-e6489a6326ca
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SCIP notification number (Netherlands)	916ff9-e787-458a-afa0-12ec5dba73b4
SCIP notification number (Poland)	862d360a-3d4e-4510-9319-09ac80339012
SCIP notification number (Romania)	26692719-0992-4210-bc52-9edf89ce1c3d
SCIP notification number (Sweden)	5a508da9-fb93-492b-aa4a-14900ec6a865

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C- DE.AM02.B.00115_19

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
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Subject to changes. Please also observe the further product documentation!

	ATEX TUEV Nord Cert GmbH	EN 60079-0	TÜV_14_ATEX_112692_X (II 3 G Ex nA IIC T4 Gc)
	CCC CNEX	CNCA-C23-01	2020312310000210 (Ex ec IIC T4 Gc)
	EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02.B. 00144/19 (2 Ex nA IIC T4 Gc X)
	IECEx TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0030_X
	UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX004X

Optional accessories

Screwless end stop

Mounting accessories



Item no.: 249-116

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

www.wago.com/249-116



Item no.: 249-117

Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

www.wago.com/249-117



Item no.: 249-197

Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

www.wago.com/249-197

Communication

Bluetooth



Item no.: 750-921

Bluetooth® Adapter

www.wago.com/750-921

Communication cable

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG

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Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

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Item no.: 750-923

Configuration cable; USB connector; Length: 2.5 m

www.wago.com/750-923

Marking accessories

Marking strip



Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110

Marker



Item no.: 2009-115

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-115



Item no.: 793-501

WMB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/793-501



Item no.: 793-502

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-502
white



Item no.: 793-503

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-503
white



Item no.: 793-504

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-504
white



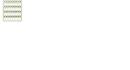
Item no.: 793-505

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-505
white



Item no.: 793-506

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-506
white



Item no.: 793-566

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; www.wago.com/793-566
white



Item no.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on www.wago.com/793-5501
type; white

Tool

Operating tool



Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

Interface module

Interface adapters



Item no.: 857-980

www.wago.com/857-980

Subject to changes. Please also observe the further product documentation!

Interface adapter; 16-pole; analog

Relay module

Relay module

Item no.: 857-304Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Limiting continuous current: 6 A; www.wago.com/857-304
Yellow status indicator; Module width: 6 mm; 2,50 mm²; gray**Jumpers**

Jumper

Item no.: 859-408

Jumper; for jumper slot; 8-way; insulated; light gray

www.wago.com/859-408 **Item no.: 281-482**

Jumper; 2-way; insulated; gray

www.wago.com/281-482**Item no.: 859-404/000-005**

Jumper; for jumper slot; 4-way; insulated; red

www.wago.com/859-404/000-005**Item no.: 859-404/000-006**

Jumper; for jumper slot; 4-way; insulated; blue

www.wago.com/859-404/000-006**Item no.: 859-405/000-005**

Jumper; for jumper slot; 5-way; insulated; red

www.wago.com/859-405/000-005**Item no.: 859-405/000-029**

Jumper; for jumper slot; 5-way; insulated; yellow

www.wago.com/859-405/000-029**Item no.: 859-405**

Jumper; for jumper slot; 5-way; insulated; light gray

www.wago.com/859-405**Item no.: 859-404/000-029**

Jumper; for jumper slot; 4-way; insulated; yellow

www.wago.com/859-404/000-029**Item no.: 859-406**

Jumper; for jumper slot; 6-way; insulated; light gray

www.wago.com/859-406**Item no.: 859-405/000-006**

Jumper; for jumper slot; 5-way; insulated; blue

www.wago.com/859-405/000-006**Item no.: 859-406/000-005**

Jumper; for jumper slot; 6-way; insulated; red

www.wago.com/859-406/000-005

Subject to changes. Please also observe the further product documentation!

	Item no.: 859-409/000-029 Jumper; for jumper slot; 9-way; insulated; yellow	www.wago.com/859-409/000-029
	Item no.: 859-410/000-005 Jumper; for jumper slot; 10-way; insulated; red	www.wago.com/859-410/000-005
	Item no.: 859-410/000-029 Jumper; for jumper slot; 10-way; insulated; yellow	www.wago.com/859-410/000-029
	Item no.: 859-410 Jumper; for jumper slot; 10-way; insulated; light gray	www.wago.com/859-410
	Item no.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue	www.wago.com/859-410/000-006
	Item no.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red	www.wago.com/859-403/000-005
	Item no.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow	www.wago.com/859-402/000-029
	Item no.: 859-403/000-029 Jumper; for jumper slot; 3-way; insulated; yellow	www.wago.com/859-403/000-029
	Item no.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue	www.wago.com/859-403/000-006
	Item no.: 859-408/000-005 Jumper; for jumper slot; 8-way; insulated; red	www.wago.com/859-408/000-005
	Item no.: 859-408/000-029 Jumper; for jumper slot; 8-way; insulated; yellow	www.wago.com/859-408/000-029
	Item no.: 859-409 Jumper; for jumper slot; 9-way; insulated; light gray	www.wago.com/859-409
	Item no.: 859-408/000-006 Jumper; for jumper slot; 8-way; insulated; blue	www.wago.com/859-408/000-006
	Item no.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray	www.wago.com/859-403

Subject to changes. Please also observe the further product documentation!

Item no.: 859-409/000-005

Jumper; for jumper slot; 9-way; insulated; red

www.wago.com/859-409/000-005



Item no.: 859-404

Jumper; for jumper slot; 4-way; insulated; light gray

www.wago.com/859-404



Item no.: 859-409/000-006

Jumper; for jumper slot; 9-way; insulated; blue

www.wago.com/859-409/000-006



Item no.: 859-402/000-006

Jumper; for jumper slot; 2-way; insulated; blue

www.wago.com/859-402/000-006



Item no.: 859-402

Jumper; for jumper slot; 2-way; insulated; light gray

www.wago.com/859-402



Item no.: 859-402/000-005

Jumper; for jumper slot; 2-way; insulated; red

www.wago.com/859-402/000-005



Item no.: 859-406/000-006

Jumper; for jumper slot; 6-way; insulated; blue

www.wago.com/859-406/000-006



Item no.: 859-406/000-029

Jumper; for jumper slot; 6-way; insulated; signal yellow

www.wago.com/859-406/000-029



Item no.: 859-407/000-006

Jumper; for jumper slot; 7-way; insulated; blue

www.wago.com/859-407/000-006



Item no.: 859-407/000-005

Jumper; for jumper slot; 7-way; insulated; red

www.wago.com/859-407/000-005



Item no.: 859-407/000-029

Jumper; for jumper slot; 7-way; insulated; yellow

www.wago.com/859-407/000-029



Item no.: 859-407

Jumper; for jumper slot; 7-way; insulated; light gray

www.wago.com/859-407

Power supplies

Power supply unit



Item no.: 787-2852

Switched-mode power supply; 1-phase; 24 VDC output voltage; 1 A output current

www.wago.com/787-2852

Cables and pluggable connectors

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG

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Do you have any questions about our products?

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Communication cable



Item no.: 750-923/000-001

Configuration cable; USB connector; Length: 5 m

www.wago.com/750-923/000-001

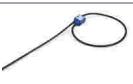
Current transformers

Rogowski coil



Item no.: 855-9150/2000-1251

Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor 125 mm

www.wago.com/855-9150/2000-1251

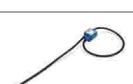
Item no.: 855-9150/2000-1751

Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor 175 mm

www.wago.com/855-9150/2000-1751

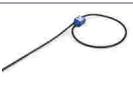
Item no.: 855-9150/2000-701

Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor 70 mm

www.wago.com/855-9150/2000-701

Item no.: 855-9450/2000-1251

Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length 4.5 m; Feedthrough for measurement conductor 125 mm

www.wago.com/855-9450/2000-1251

Item no.: 855-9450/2000-1751

Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length 4.5 m; Feedthrough for measurement conductor 175 mm

www.wago.com/855-9450/2000-1751

Item no.: 855-9450/2000-701

Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length 4.5 m; Feedthrough for measurement conductor 70 mm

www.wago.com/855-9450/2000-701

Terminal blocks

Supply module



Item no.: 857-979

Supply and through module

www.wago.com/857-979

Downloads

Documentation

Bid Text

857-552 pdf - Datei	2019 Jul 15	pdf 78.5 kB	Download
857-552 X81 - Datei	2019 Jul 15	xml 7.5 kB	Download
857-552	2019 Jul 15	docx 20.6 kB	Download

Subject to changes. Please also observe the further product documentation!

docx - Datei

Instruction Leaflet

CCC Ex (Additional information) 857-***	2023 Apr 26	pdf 144.4 kB	Download
Rogowski-Messumformer		pdf 2.4 MB	Download

Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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Engineering-Software

Configuration and Commissioning Software

WAGO Interface Configuration Software G2 FULL The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework.	1.00.10.01 2022 Jan 20	exe 114.9 MB	Download
WAGO Interface Configuration Software G2 SMALL The full setup only includes the WAGO Interface Configuration Software G2.	1.00.10.01 2022 Jan 20	exe 31.0 MB	Download

CAD/CAE-Data

CAE data

EPLAN Data Portal 857-552	URL	Download
WSCAD Universe 857-552	URL	Download
ZUKEN Portal 857-552	URL	Download

CAD data

2D/3D Models 857-552	URL	Download
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Environmental Product Compliance

Compliance Search

Subject to changes. Please also observe the further product documentation!

Environmental Product Compliance 857-552

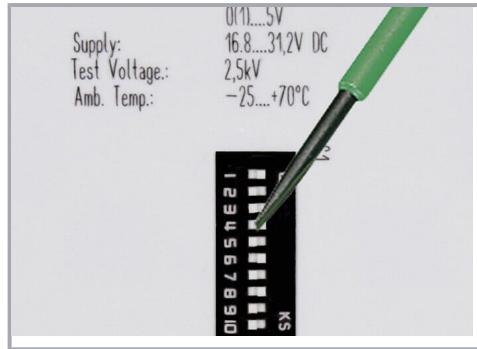
URL

Download

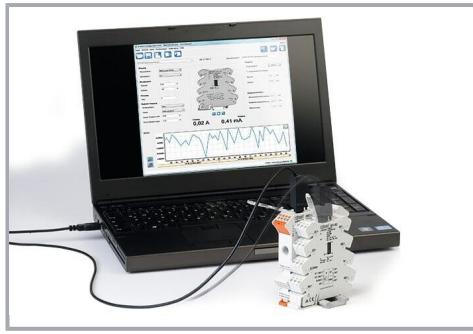
Current signal conditioner; Input for Rogowski coils; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

Installation Notes

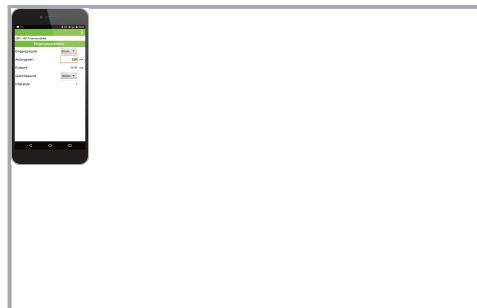
Configuring



Configuration via DIP switch



Configuration via WAGO Interface
Configuration Software



Configuration via WAGO Interface
Configuration App

Commoning

Subject to changes. Please also observe the further product documentation!

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Commoning, not discrete wiring – Same outline allows use of a single in-line, push-in jumper.

Subject to changes. Please also observe the further product documentation!

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Hansastra. 27

32423 Minden

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