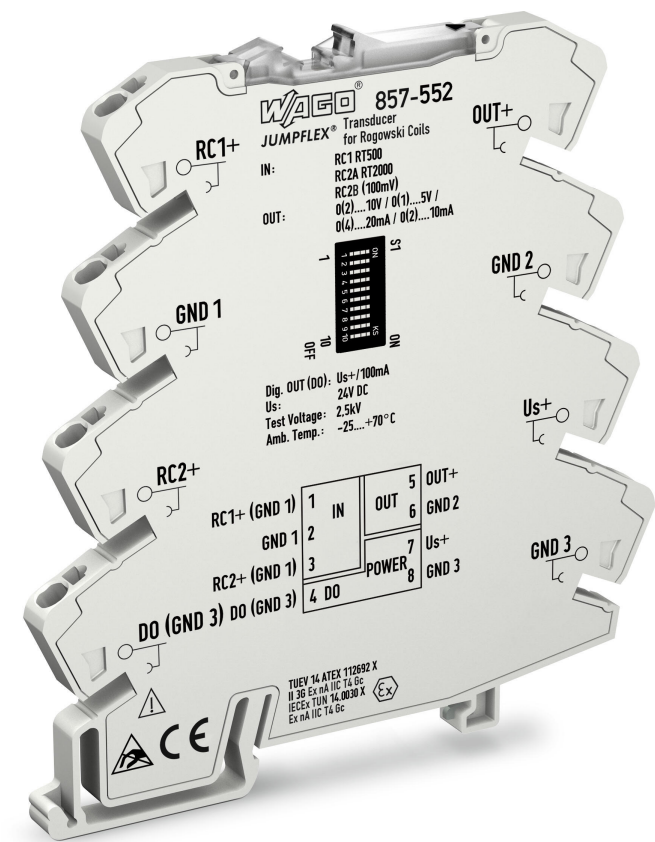




Current signal conditioner; Input for Rogowski coils; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

www.wago.com/857-552



RC1+ (GND 1)	1	IN	OUT	5	OUT+
GND 1	2			6	GND 2
RC2+ (GND 1)	3	DO	POWER	7	Us+
DO (GND 3)	4			8	GND 3

Item description

Short description: The Rogowski Signal Conditioner records RMS values from alternating currents via a Rogowski coil and converts the input signal into a standard analog signal on the output side.

Features:

- PC configuration interface
- Supports different types of Rogowski coils
- Digital switching output (configurable switching thresholds)
- True RMS measurement (TRMS)
- Configurable output signal
- Configuration via DIP switch
- Safe 3-way isolation with 2.5 kV test voltage acc. to EN 61140
- No current bar interruption during installation
- Measuring range overflow indication

Note: (* Additional setting options via interface configuration software or interface configuration app)

Data
Technical Data

Configuration

- Configuration options
- DIP switches
Interface configuration software
Interface configuration app



Input

Input signal type	Voltage Current
Input signal voltage	50 Hz sinusoidal signals: 10.05 mV AC (RC1); 40.2 mV AC (RC2A); 90 mV AC (RC2B)
Sensitivity	RC2B: 22,5 mV/kA
Measurement range, current	500AAC (RC1); 2000AAC (RC2A); 4000AAC (RC2B)
Frequency range	50 Hz
Response threshold	$\leq 1\%$ (of measuring range nominal value)
Resolution	250 mA (RC1); 1 A (RC2A); 1.5 A (RC2B)

Output

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
Software filter, adjustable	moving mean value (filtering level: 30)
Load impedance (output/voltage)	$\geq 1\text{ k}\Omega$
Load impedance (output/current)	$\leq 600\ \Omega$

Output – Digital

Max. switching voltage (DO)	Supply voltage applied
Max. continuous current (DO)	100 mA (no internal restriction)
Number of switching thresholds (DO)	1 (adjustable)

Signal processing

Measuring procedure	True RMS measurement (TRMS)
Max. operating frequency	2 kHz
Software filter, adjustable	moving mean value (filtering level: 30)
Step response	60 ms

Measurement error

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



Power supply

Type of power supply	24 VDC
Nominal supply voltage U_S	24 VDC
Supply voltage range	$\pm 30\%$
Current consumption at supply voltage	$\leq 40\text{ mA (+ } I_{DO})$

Safety and protection:

Test voltage (input/output/supply)	2.5 kV AC; 50 Hz; 1 min
Degree of protection	IP20

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 Inch

Geometrical Data

Width	6 mm / 0.236 Inch
Height from upper-edge of DIN-35 rail	97.8 mm / 3.85 Inch
Depth	94 mm / 3.701 Inch

Mechanical data

Type of mounting	DIN-35 rail
Degree of protection	IP20

Material Data

Color	light gray
Fire load	0.405 MJ
Weight	35.113 g

Environmental Requirements

Surrounding air (operating) temperature	-25 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C

Standards and specifications

Conformity marking	CE
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Commercial data

Country of origin	DE
GTIN	4050821476917
Customs Tariff No.	85437090300
Product Group	6 (Interface Electronics)

Product family

JUMPFLEX Signal Conditioners

The modules offer numerous technical highlights and feature a common profile, allowing the same flexible push-in jumpers to be used across the entire JUMPFLEX® line. With its new JUMPFLEX[®] Signal Conditioners, WAGO is continuing to expand its existing JUMPFLEX® portfolio, offering its customers the best solutions from a single source.

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Subject to changes.

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