

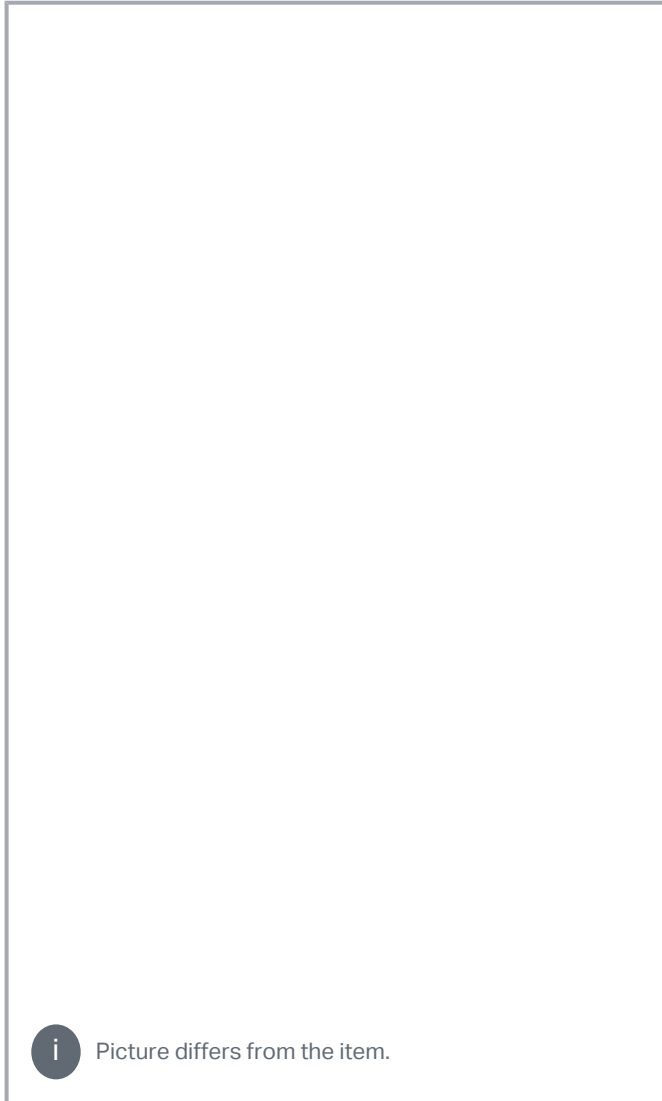
**Data sheet | Item number: 855-9150/2000-701**

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](http://www.wago.com/855-9150/2000-701)



## Item description

### Short description:

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



Rogowski coils are used to measure AC currents and are particularly well suited for retrofitting in existing systems. The split coil bobbin allows for subsequent installation around the primary conductor – be it current bars or round conductors. Rogowski coils are ideal for connection with WAGO products (857-552; 750-495/000-002; 2857-570/024-000). A sealable bayonet catch and mounting brackets for cable ties make for easy installation.

## Data Notes

Note	<p>Rogowski technology allows the coils to measure a wide primary current range of up to 10,000 A without loss of accuracy, because there are no saturation effects.</p> <p>The requirements for standards EN 61869-1, EN 61869-2, EN 61869-6 and EN 61869-10 are only partially met, as there are fundamental differences with current transformers for a Rogowski coil.</p>
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## Technical data

### Input

Measurement range	10 A ... 10000 A (up to 4000 A in combination with the recommended WAGO products)
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### Input – current transformer

Primary rated current	1000 A
Rated short-time thermal current $I_{th}$	300 kA at 50 Hz
Rated frequency	50 ... 60 Hz
Mutual inductance M	71.98 nH

### Output – analog

Sensitivity	22.5 mV/kA at 50 Hz
Output signal (max.)	30 V

### Signal processing

Limit frequency	420 kHz
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Subject to changes. Please also observe the further product documentation!

## Measurement error

Accuracy class	0.5
Translation errors (all positions)	0.75 %
Translation errors (note)	Assuming that a primary conductor with a minimum diameter of 15 mm is used that is routed perpendicular to and in contact with the coil.

## Safety and protection

Rated insulation voltage	1000 VAC <sub>rms</sub> (Cat. III); 600 VAC <sub>rms</sub> (Cat. IV)
Impulse withstand voltage (1.2/50 µs)	12.8 kV
Protection type	IP57

## Test voltage

Voltage for isolation test	AC 7.4 kV; 50 Hz; 1 min
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## Connection data

Feedthrough for measurement conductor	Ø 70 mm
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## Physical data

Cable length	1.5 m
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## Mechanical data

Mounting type	Split-core current transformer (suspended)
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## Material data

Weight	130 g
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## Environmental requirements

Ambient temperature (operation)	-40 ... +80 °C
Surrounding air temperature (storage)	-40 ... +80 °C
Relative humidity	90% (without condensation)
Operating altitude (max.)	2000 m

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

## Standards and specifications


Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-32 EN 61869-1 EN 61869-2 EN 61869-6 EN 61869-10 UL 61010-1

## Commercial data


eCl@ss 10.0	27-21-09-02
eCl@ss 9.0	27-21-09-02
ETIM 8.0	EC002048
ETIM 7.0	EC002048
PU (SPU)	1 Stück
Packaging type	bag
Country of origin VKOrg Germany	CH
GTIN	4055143419185
Customs tariff number VKOrg Germany	90303370000

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02.B.00111/19

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 61010-2-032	E499682

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



## Optional accessories

### Signal conditioner

Power measurement module

**Item no.: 2857-570/024-000**

3-Phase Power Measurement Module; 3x277/480 V/RC; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

[www.wago.com/2857-570/024-000](http://www.wago.com/2857-570/024-000)

Current signal conditioner

**Item no.: 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 mm<sup>2</sup>

[www.wago.com/857-552](http://www.wago.com/857-552)

## Downloads

### Documentation

#### Bid Text

855-9150/2000-701 docx - Datei	2019 年1月24 日	docx 18.2 kB	Download
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855-9150/2000-701 X81 - Datei	2019 年1月24 日	xml 6.2 kB	Download
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#### Instruction Leaflet

Rogowski-Spulen RC70 / RC125 / RC175	V 1.1.0	pdf 1.7 MB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 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	URL	Download
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## Installation Notes

### Installation

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Bayonet connector:  
Robust and durable



Screw-mount clips:  
Quick and easy mounting with cable ties



Lock-out seal:  
Greater security via sealable bayonet lock

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