

RAC-1A integrator

Integrator for Rogowski flexible current sensors

1 A output



rac_001.eps

Function

The integrator **RAC-1A** * converts the raw output signal from the Rogowski sensor to a 1A output. Combined with the RGW range of flexible current sensors, these Rogowski sensors can be used with meters or PMDs compatible with 1A input(s). The intuitive interface enables the RAC-1A to be quickly switched among 4 different ratings ranging from 100 to 5000A to be able to make precise measurements as close as possible to requirements.

*Only compatible with the addition of Rogowski sensors

Advantages

Maximum compatibility

Thanks to the 1A output, the RAC-1A can be paired with meters or PMDs with 1A input(s).

Secure locking

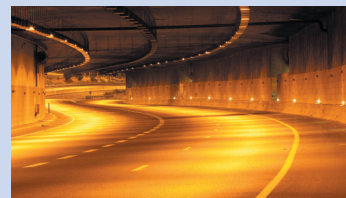
The ultra-compact size and DIN-rail attachment of the RAC-1A integrator means that it can be installed in restricted environments.

Fast commissioning

The RAC-1A's intuitive interface makes it easy to quickly select the most suitable rating for the application. The RAC-1A's wide power supply range of 85 to 265 VAC makes it easy to put the RAC-1A into service.

The solution for

- > Infrastructure & Transport
- > Industry
- > Buildings



Strong points

- > Maximum compatibility
- > Small footprint
- > Fast commissioning

Conformity to standards

- > IEC 61326-1



- > CE



- > UKCA

Associated products



Rogowski sensors

Compatible with

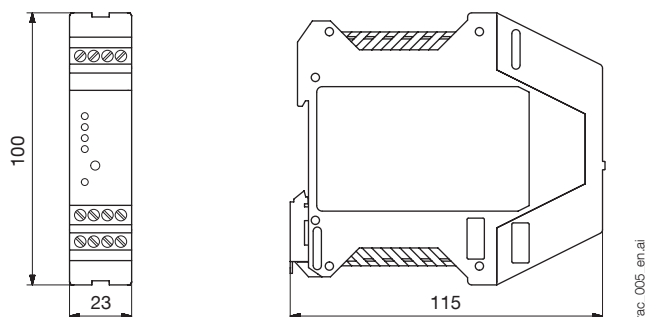
- > COUNTIS
- > DIRIS
- > COSYS

RAC-1A integrator

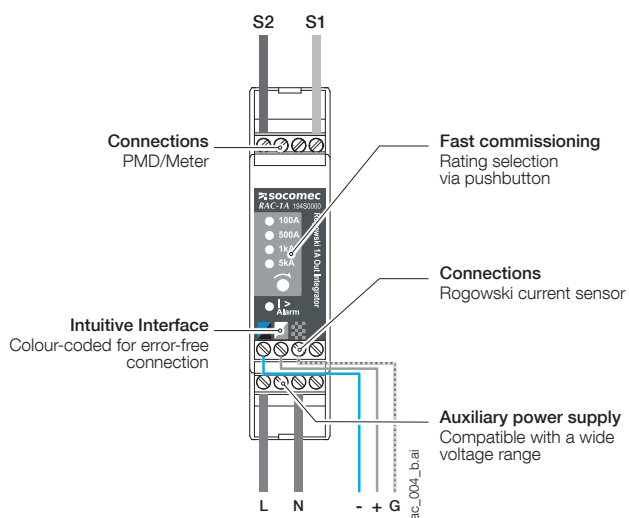
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Dimensions (mm)



Interface



Characteristics

Model	RAC-1A
Integrator input signal	100 mV with RGW-XXX sensor
Integrator output signal	1 A
Selectable scales	100 A, 500 A, 1000 A, 5000 A
Bandwidth	40 to 3200 Hz
Accuracy with Rogowski RGW-XXX sensor	1% error at 100% full scale 1.5% error at 5% of full scale
Auxiliary power supply	85 ... 265 VAC 50/60 Hz
Consumption	6.5 VA
Measurement category	300 V CAT III
Operating temperature	-25 ... +55 °C
Storage temperature	-25 ... +70 °C
Relative humidity	0 ... 80%
Protection rating	IP20
Weight	122 g

Correspondence of ratios between RAC-1A and meter/PMD

RAC-1A	Meter / Power Monitoring Device
100 A	100/1
500 A	500/1
1 kA	1000/1
5 kA	5000/1

References

Input	Output	Auxiliary power supply	Reference
100 mV	1 A	85...265 VAC	194S 0000

Application diagram

