

# Flex-RMG

## Flexible current sensor



### Description

The flexible current sensor can take alternating current measurements from any installation with a full rejection of DC components, a very low consumption of power, with no saturation problems, a low temperature dependence and a very good linearity. The flexible sensor has been designed according to the Rogowsky coil principle, measuring alternating current irrespective of the position of the conductor. The current conductor must not be near the coil cable joint, since the degree of error increases in this area. Its centred location also reduces the impact of external magnetic fields. Thanks to the flexibility of the current sensor, one or more conductors can be surrounded, regardless of their shape, to perform current measurement actions

### Applications

These flexible current sensors have been specially designed for the **MYeBOX-150** and **MYeBOX-1500** portable power analysers.

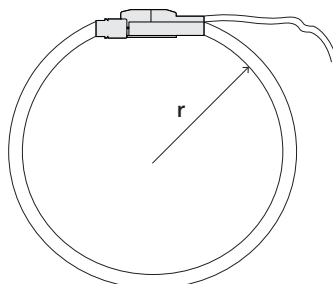
### Technical features

<b>Electrical features</b>	Output voltage	100 mV/kA 50 Hz
	Frequency Range	50 Hz - 60 Hz
	Accuracy	± 1%
	Linearity (10...100%)	± 0.2%
	Max. temperature coefficient	± 0.05%
	Position sensitivity (cable joint)	± 3%
	External fields	± 2%
	<b>Electrical Safety</b>	Insulation
Protection class		Class 2 IEC 61010-1:2001
Overvoltage category		1000 V CAT III / 600 V CAT IV
Contamination level		2
Dielectric rigidity		IEC 61010-2-32:2002, 5.4 kV 50 Hz
<b>Build features</b>	Probe material	Self-extinguishing UNE 21031 90°C
	Material coupling elements	PA V-0
	Probe cable diameter	8 mm
	Output cable length	2 m
	Operating temperature	-20...85°C
	Storage temperature	-40...85°C
	Relative humidity	15...85% (non-condensing)
	Protection	IP 54

### References

Type	Sensor length	$I_{min}$ / Measurement range	Code 1 clamp	Code kit with 3 clamps	Code kit with 4 clamps
Flex-RMG70	22 cm	1/10...100 A 10/100...1000 A	M81911	M81931	M81941
Flex-RMG120	38 cm	500/1000...10000 A	M81912	M81932	M81942

### Dimensions



Type	r
Flex-RMG70	3.5 cm
Flex-RMG120	6 cm