



Energy Management Flexible Rogowski coil Type ROG4K



- Flexible current sensor (Rogowski coil) for EM210 MV current measurement
- Primary current up to 4000 A
- Extended accuracy range +/-1%
- Hole diameter up to 275 mm
- Direct connection to energy analyser
- No power supply or external integrator required
- Coloured label on the cable for connection check

Product Description

Flexible current sensor (Rogowski coil) to be used in combination with EM210 MV energy analyser. Thanks to the built-in EM210 signal integrator, an external power supply and an external integration device is not required,

allowing fast and cost effective installation in critical applications where a wide range of current input is required. The High accuracy is guaranteed in the whole range thanks to the absence of a magnetic core.

Three colours for 3-phase applications with coloured label at the end of the cable for connection check. It can be mounted directly around the cable or the bus bar.

How to order	ROG4K	100	2M	400	3X
Model					
Secondary output					
Cable length					
Coil length					
Option					

Type selection

Secondary output	Cable length	Coil length	Option
100: 100 mV/kA @50Hz	2M: 2m	400: 400 mm 600: 600 mm 1000: 1000 mm	3X: package with 3 coils of different colors (black, blue, orange)

Input specifications

Primary Current (In)	Up to 4 kA	Max temperature sensitivity	+/- 0.07% per °C
Operating frequency	45 to 65 Hz	Internal resistance	30 Ohms/ 400 mm.
Max continuous current	1.2 In	Dielectric strenght	7.4 kVac for 1min (output signal cable wires to coil)
Accuracy	+/-1% in the range 20 to 4000 A		
Linearity	+ 0.2 %		
Position sensitivity	+/- 2% maximum (closing unit)		
Extenal field influence	+/- 0,5% maximum		

General specifications

Operating temperature range	-20°C to +70°C (-13°F to 131°F) (R.H. < 85% non-condensing)	Connections to EM210	direct connection (no power supply or external integrator required)
Pollution degree	2	Protection Degree	
Overvoltage category	CAT III 1000V @50/60 Hz CAT IV 600V @50/60 Hz	Coil and cable material	Thermoplastic RUBBER, flame retardant UL 94 V-O rated
Coil cross section	12 mm	Couplings material	PA6 UL 94 V-O rated
Coil length	see "Dimensions and weight"	Cable type	1000V UL STYLE 20940;;
Max conductor diameter	see "Dimensions and weight"	Cable external diameter	5 mm
External coil diameter	see "Dimensions and weight"	Cable wires	Wires 2x 26AWG
Approvals	CE, cURus	Approx weight	see "Dimensions and weight"
Standard compliance	IEC 61010-1		
Mounting	cable/bar mounting		

Dimensions and weight

	Coil lenght	Max conductor diameter	Coil external diameter	Coil weight
ROG4K1002M400	400 mm	115 mm	139 mm	130g
ROG4K1002M600	600 mm	179 mm	203 mm	160g
ROG4K1002M900	900 mm	275 mm	299 mm	200g