

Rogowski coil

The Rogowski coils are flexible current transformers based on the Rogowski principle. Due to its specific features, a Rogowski coil is an extremely comfortable solution for current measurement and can be used in a wide range of applications where traditional current transformers are not the adequate solution due to size, weight or due to limited access. Rogowski coils are shielded against the influence of external magnetic fields, which grants a stable measurement from low currents to hundreds of kA uniform at any position of the conductor inside the coil. In addition, an multiscale Rogowski integrator is available, which in combination with Rogowski coil is suitable for high power load analysis, impulsive current monitoring, and DC ripple measurement.

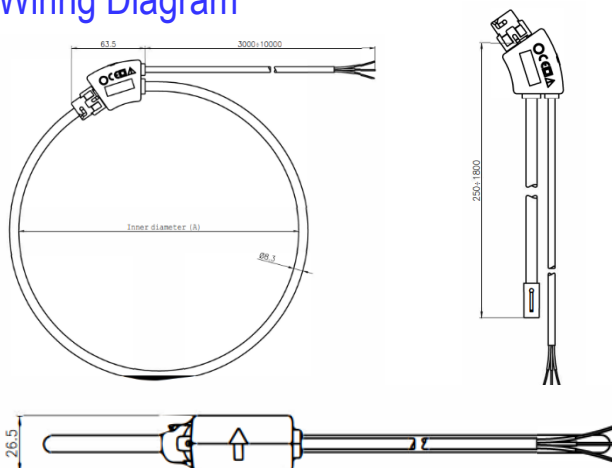


Ordering Specifications

Article Number	Ratio	Internal diameter (mm)
2C4E10	100mV/1kA	~90
2C4H10	100mV/1kA	~120
2C4K10	100mV/1kA	~175
2C4P10	100mV/1kA	~270

Provided with an accessory to secure the coil to the busbar.

Wiring Diagram



Technical Specifications

<i>Environmental conditions</i>	
This product is designed to be safe under the following conditions:	
Location:	Outdoor use
Operating temperature:	-40°C .. +75°C up to 2500A with 15...41 cm coil length; -40°C .. +60°C up to 5000A with 42...50 cm coil length
Storage temperature:	-40°C .. +90°C
Relative humidity:	0% .. 95%
Altitude:	Max. 2000m above sea-level
Protection degree:	IP68
<i>Application conditions</i>	
Standard:	IEC 61010-1; IEC 61010-2-032; IEC 63000:2018
<i>Electrical characteristics</i>	
Nominal output rate (RMS values):	100mV / kA @ 50 Hz 120mV / kA @ 60 Hz
Max measurable current:	600A...5000A depending on coil length.
Coil resistance:	170 ... 690 Ω
Accuracy:	Class 1-A1 according to IEC 61869-10
Frequency:	50/60 Hz
Overvoltage category:	1000 V CAT III, 600 V CAT IV
Pollution degree:	3
Insulation test voltage:	7400 VRMS / 5s
Cable length:	3m calibrated
Weight:	150...500 gram

