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OFR SERIES ROGOWSKI COIL



Features:

- ✓ High linearity from 1A to 100kA
- ✓ Wide dynamic range
- ✓ With a shield against the influence of external magnetic fields.
- ✓ No danger from open-circuited secondary.
- ✓ Not damaged by large overloads.
- ✓ Non-intrusive, no power drawn from the main.
- Measurement uniformity at any position of the conductor inside the coil.
- ✓ Ingress Protection Grade: IP65 or IP68

OFR is a current transformer fixed by cable ties based on Rogowski principle, particularly suitable for measurement in combination with portable devices.

OFR coils are available in different sizes and can be supplied according to customer's design. Therefore they can be used in all those applications, in which traditional transformers are not fitting due to its size and/or weight.

Due to its specific features, Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transformer is not the adequate solution.

Position sensitivity:

Conductor Position	Typical Error(%)
Adjacent To The Clip Together Mechanism	0.5%
Adjacent To The Inside Coil Edge	<0.8%
●Adjacent To The Opposite Clip	<1%





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Applications:

- 1. Electricity meters
- 2. Power Quality analyzer
- 3. Lightning current detection system
- 4. Industrial electric furnace current measurement
- 5. Arc fault current measurement
- Transmission line distributed fault detection system
- 7. Transient filter type fault indicator

Advantage:

- 1. Calibrated to 0.5%
- 2. 8mm section easy to install
- 3. Easy to fixed on bus-bar and cable by cable ties
- 4. Lower zero drift down to 0.1mV

Material:

Coil & cable: Thermoplastic rubber

Flame retardant UL 94 V-0 rated

Coupling: PA6 UL 94 V-0 rated

Color (coil): Green

Shielded: 100% coil, 100% output cable

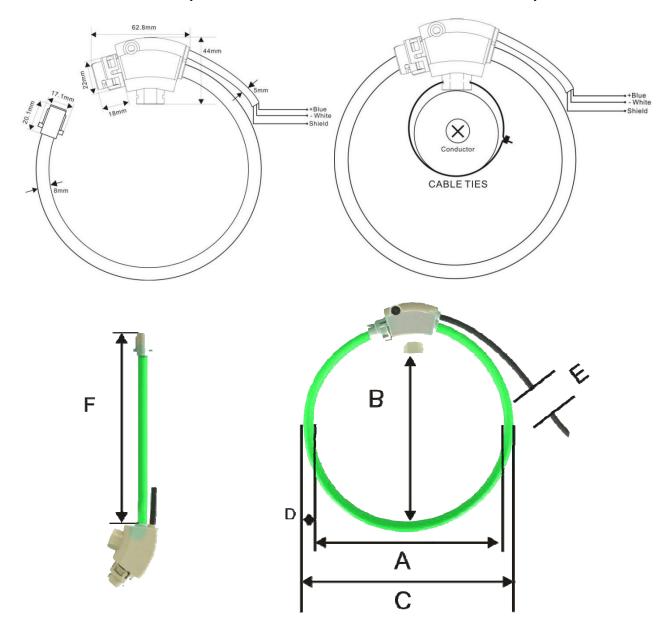
Characteristics:

МО	DEL	OFR-100	OFR-150	OFR-200	
Reference Rated Current		1000A	3000A	6000A	
Ratio	Calibrated	85mV/kA@50Hz		50mV/kA @50Hz	
	Uncalibrated	105mV/kA@50Hz			
Read Accuracy		Calibrated <0.5% (central position, 25℃) Uncalibrated < 5% tolerance (central position, 25℃)			
Maximum Current Measurable		100kA			
Coil Resistance		from 100 to 250 Ω			
Coil Section		8mm			
Lead Length		2meter			
Temperature -		Uncalibrated 200ppm/C			
		Calibrated 400ppm/C			
Position Error		±1% maximum			
Outpu	Output On 0A		<0.1m\/		
(Zer	o Drift)		≤0.1mV		
Phas	se Error	≤0.5°			
Lin	earity	±0.2% of reading			
Ban	dwidth	1Hz to 100kHz(-3dB)			
Operating	Temperature	-30°C to 80°C			
Storage Temperature		-40℃ to 90℃			



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Dimensions tolerance: (A,B,C,F: \pm 5mm, D: \pm 0.2mm,E: \pm 10mm)



Dimensions(mm)	OFR-100	OFR-150	OFR-200	
A. Windows Size A	135	165	210	
B. Windows Size B	100	150	200	
C. Coil O.D.	151	181	226	
D. Cable Diameter		ф8		
E. Cable Length (on request)	2000			
F. Coil Length	395	525	665	
Net Weight (g)	Approx 100-120g			



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The Order Specification Confirmation

•	Rated Current : A		
•	Inner Window Size : mm		
•	Secondary Lead Length : m		
•	Ingress Protection Grade: IP65 (Suitable for Calibrated & Uncalibrated Type)		
	IP68 (Suitable for Uncalibrated Type)		
	Product Type		
1.	Rogowski Coil		1
	Calibrated (IP65) (The product has the same output signal, but it will increase coil resistance)	- 【	1
	Uncalibrated (IP65 & IP68) (The product has different output signal)	- [1
	IP65【 】 IP68【 】		
2.	Rogowski Coil with Integrator	- []
	Rated Output: Rated Current /mV AC (ex. 3000A / 333mV AC)		