

Split-core Flexible Rogowski Coil CT

FEATURE

- AC current probe utility by the Rogowski principle
- Flexible and lightweight
- Easy & quick installation in uninterruptible power line
- Suitable to measure currents from mA to 100kA
- measurable from 10Hz to 20kHz
- Available shielding type on request
- Coil length from 20cm to 180cm
- No danger from open-circuited secondary
- High secondary output voltage & precise linearity error

APPLICATION

- Very high current monitoring
- DC ripple measurement
- Harmonics and transients monitoring
- Power monitoring & control systems
- Applicable in electronic Watt-hour meter

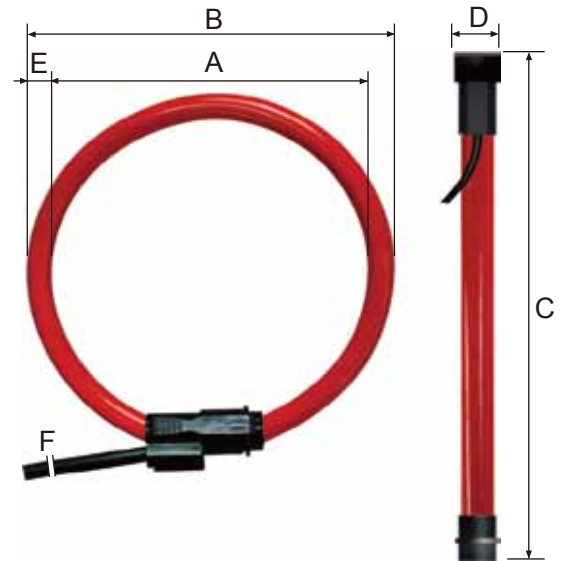
SPECIFICATION

Normal type

Current Range	< 1-10kA
Output Voltage	JRF-1 : 169mV AC/500A @ 50 Hz 202mV AC/500A @ 60 Hz JRF-2 : 344mV AC/1000A @ 50 Hz 412mV AC/1000A @ 60 Hz JRF-3 : 692mV AC/2000A @ 50 Hz 830mV AC/2000A @ 60 Hz
Accuracy	< 1%
Phase Shift	< 1° at 50/60Hz (typical < 0.5°)
Frequency Range	25Hz to 5kHz
Output Sensitivity Tolerance	±5% maximum(Uncalibrated)
Output Sensitivity Tolerance	±0.5% of reading at 25°C (Calibrated)
Linearity (10% to 100% of range)	±0.2% of reading
Conductor Position Sensitivity	±2% maximum
Working Voltage	1000Vrms or DC (Probe)
Influence of External Field	±2% maximum
Dielectric Strength	5kVrms/1min. (Coil closed)
Working Temp.	-20°C to +85°C

Shielding type

Current Range	< 1k-100kA
Output Voltage	JRF-1S : 169mV AC/500A @ 50 Hz 202mV AC/500A @ 60 Hz JRF-2S : 344mV AC/1000A @ 50 Hz 412mV AC/1000A @ 60 Hz JRF-3S : 692mV AC/2000A @ 50 Hz 830mV AC/2000A @ 60 Hz
Accuracy	< 1%
Phase Shift	< 1° at 50/60 Hz (typical < 0.5°)
Frequency Range	10Hz to 20kHz
Output Sensitivity Tolerance	±5% maximum(Uncalibrated)
Output Sensitivity Tolerance	±0.5% of reading at 25°C (Calibrated)
Linearity (10% to 100% of range)	±0.2% of reading
Conductor Position Sensitivity	±2% maximum
Working Voltage	1000Vrms or DC (Probe)
Influence of External Field	±1.5% maximum
Dielectric Strength	7.4kVrms/1min. (Coil closed)
Working Temp.	-20°C to +85°C



DIMENSIONS (cm)	Normal type			Shielding type		
	JRF-1	JRF-2	JRF-3	JRF-1S	JRF-2S	JRF-3S
A Window Size	12	19	30.5	11.6	18.6	30.1
B Transformer Coil O.D.	14.5	20.5	33.5	14.9	20.9	33.9
C Transformer Length	41.5	61	102.5	41.5	60	102.5
D Locking Connector O.D.	2.2			2.2		
E Transformer Coil Diameter	1.2			1.6		
F Wire Lead Total Length	100 (Available customizing)					

MECHANICAL

Coil Material	thermoplastic rubber(red, blue, black)
Coupling Materials	Black thermoplastic rubber and Polypropylene UL 94 V-0 rated
Wire Length	100cm(Normal), available customizing
Wire Colors	Black = K Red = L Bare wire = shield

STANDARDS

SAFETY	EN61010-1, EN61010-031 EN61010-2-031, EN61010-2-032 IEC 1010-1
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