

ETCR001F Flexible coil current sensor (Integrator)



Product Function

Measure AC big current, high harmonic current
Complex Waveforms current,
Inrush transient current, Phase,
Electric energy, power, power factor.

Product features

1. Non-contact measurement, safe and reliable.
2. Wide measurement range, high accuracy, reliability, response, bandwidth (0.1Hz-1MHz).
3. Integrator small size, light weight, soft and flexible, suitable for cramped environment and cable-intensive sites, measure the size of a large or irregularly shaped conductor current.
4. Particularly suitable for relay protection, silicon controlled rectifier, frequency control, semiconductor switches, Power electronics conversion equipment, arc welding and other industrial environments serious signal distortion.



Technical Specification

Product Model	ETCR100F Flexible coil Sensor	ETCR200F Flexible coil Sensor	ETCR300F Flexible coil Sensor
Product Picture			
Coil Length	315mm	630mm	1000mm
Coil diameter	φ100mm	φ200mm	φ300mm
Weight	215g	330g	350g
Coil thickness	φ7.5mm(Suitable for narrow environments and cable-intensive places)		
power supply	6F22 9VDC Zinc-manganese dry batteries (external power supply)		
Range	AC 300A/3000A/6000A/10000A(Optional)		
Signal output	AC 0~1V		
Resolution	0.1A/1A/2A/3A		
Accuracy	±1%FS (50Hz/60Hz;23°C±2°C,Below 70%RH, the wire is in the center of the coil)		
Phase error	≤1°(50Hz/60Hz;23°C±2°C)		
Integrator size	103mm×65mm×26mm		
Integrator weight	200g, Output cable length: 2m		
Output Interface	3.5mmAudio frequency plug/BNC plug (Optional)		
Electric field interference	No hysteresis effect, no external electric field interference		
Cable position	The cable in the center of the coil and the position error affects ≤±0.5% FS		
Current frequency	45Hz~70Hz (Measured current frequency)		
Response frequency	0.1Hz~1MHz		
Line voltage	Below AC 600V		
Packing List	Flexible coil:1PCS; Integrator:1PCS;		