

BR Series High Sensitivity Flexible Rogowski Coil

1. Product Features

BR Series High Sensitivity Flexible Rogowski Coil is a flexible current sensor with high sensitivity, which can be directly combined with portable devices such as power analyzer. BR series applies to energy consumption monitoring, high-frequency monitoring, DC ripple measurement, ect. The size can be customized accordingly.

- Excellent Linearity
- High Dynamic Range, 0.1A to 500KA
- Strong Overload Capacity
- Small Interference from Adjacent Conductors
- Small Position Error
- Soft and Light, easy to install
- Good Linearity
- Large Bandwidth Scope

Conductors

- No Open-Circuit high Voltage Danger
- Zero Power Consumption
- Protective Class IP65
- Single Hand Connector -opening

Operation

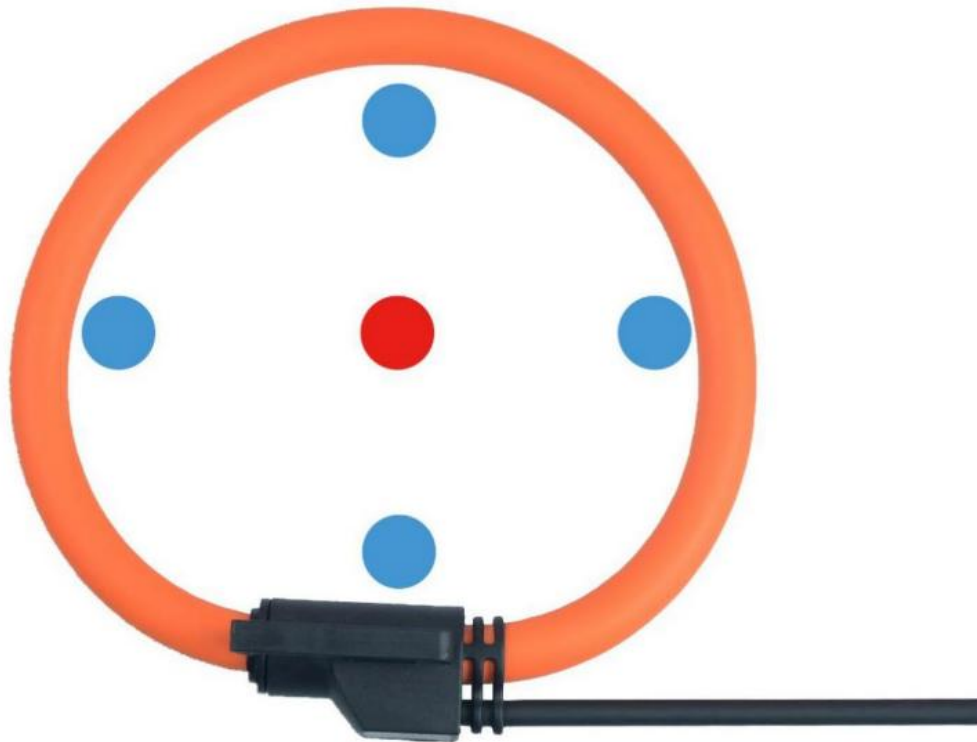
2. Technical Parameters

Type	BR-90	BR-150
Perimeter	300mm	500mm
Internal Diameter	90mm	150mm
Refence Current	≤500kA	
Weight	100 - 500g	
Coil Resistance	50 - 500 Ω	
Maximum Current	500kA	
Cross-Section	12mm	
Signal Line Length	Default: 2m, can be customized	
Transformation Ratio	200±0.5% $mV/kA@50Hz$ Other sensitivities can be customized	
Position Error	±1%	
0A Output (Zero Drift)	≤1mV	
Angle Error	≤0.5°	
Linearity	±0.2%	
Bandwidth	1Hz - 10kHz	
Operation	-40°C - 80°C	

Temperatures	
Storage Temperatures	-50°C - 90°C
Flame Retardant	Thermoplastic Rubbers for Wires and Cables IEC-60332-1-2 Flame Retardant Class
Shield	Coil 100%, Signal Cables 100%
Insulation Voltage	Coil: 3000V; Signal Line:300V

3. Position Error

Conductor Position	Error (%)
● Adjacent to the Connector	<0.5%
● Adjacent to the Inner Coil Edge	<1%



4. Installation Diagram

