

## Product Datasheet - Technical Specifications



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### Your contact

Technical and commercial sales, price information,  
quotations, demo/test equipment, consulting:

Tel.: +49 - (0)81 41 - 52 71-0

E-Mail: [sales@meilhaus.com](mailto:sales@meilhaus.com)

**Meilhaus Electronic GmbH**  
Am Sonnenlicht 2  
82239 Alling/Germany

Tel. +49 - (0)81 41 - 52 71-0 E-  
Mail [sales@meilhaus.com](mailto:sales@meilhaus.com)

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# Rogowski AC Current Probe

## RCP Series

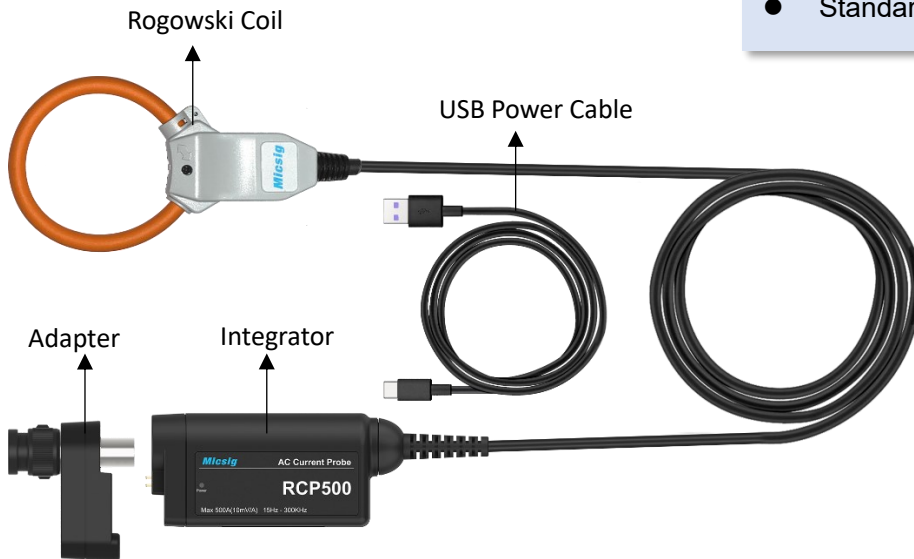


- Up to 30MHz bandwidth
- Max. 600A AC current measurement range
- 1% typical accuracy
- 1.6mm coil cross-section diameter
- Standard BNC interface

Model / Ordering Number	RCP300-XS	RCP600-XS
Bandwidth	10Hz-30MHz	10Hz-30MHz
Measurement Range (AC)	200mA <sub>pk</sub> -300A <sub>pk</sub>	200mA <sub>pk</sub> -600A <sub>pk</sub>
Output Sensitivity	20mV/A (50X)	10mV/A (100X)
Output noise	< 18mV <sub>pp</sub>	< 12mV <sub>pp</sub>
Peak di/dt	20kA/μs	40kA/μs
Droop	9%/ms	6%/ms
Accuracy (typical)	1%	
Offset voltage	<±1mV	
Effect of conductor position	Within ±1% (deviation from center)	
Peak coil isolation voltage	AC 2kV <sub>rms</sub> (1 min) (50Hz/60Hz) (Rogowski coil part only)	
Power supply	DC 12V	
Coil cross-section diameter	1.6mm	
Interface	1MΩ BNC	
Coil inner diameter	25mm (customizable)	
Coil circumference	80mm (customizable)	
Wire length (integrator to Rogowski coil)	1.5m (customizable)	
Working temperature	Base unit : 0°C - 55°C Coil : -20°C - 125°C	

RCP500

- Compactly designed, exquisite appearance
- 1% high accuracy with less than 2mV noise
- Rogowski coil measurement system
- Standard adapter for all BNC interface



Model / Ordering Number	RCP500
Bandwidth	15Hz - 300KHz (-3dB )
Current Range	200mA (pk) - 500A (pk)
Output Sensitivity	10mV/A
Output Noise	< 2mV rms
Typical Accuracy	1%
Phase Accuracy	≤0.8° (45Hz-66Hz)
Offset Voltage	±1mV or below
Max. Voltage	AC 10kV RMS (1 minute), (50Hz/60Hz) (Rogowski coil part only)
Conductor Under Test Diameter	≤ ϕ50mm
Power Supply	Micsig UPI probe interface (EOL); PA05 Adapter (USB cable)
Conductor Positional Accuracy	Within ±1% (Deviation from the Center)
Influence of External Magnetic Fields	1.5% f.s. or below (400A/m,50Hz/60Hz)
Coil to Integrator Cable Length	2m (customizable)
Operating Temperature	-20-70°C
Operating Altitude	≤ 2000m