

# MAGNELAB

## 5 A Output Three-Phase RopeCT<sup>®</sup> RCS-5A Series

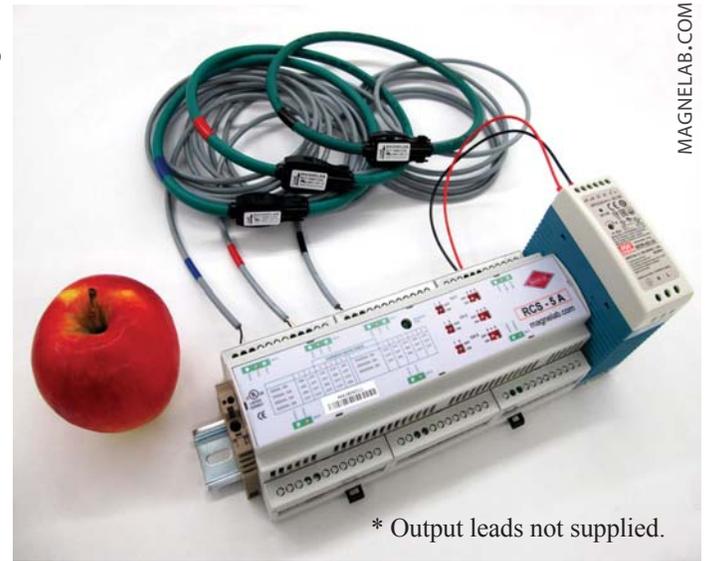
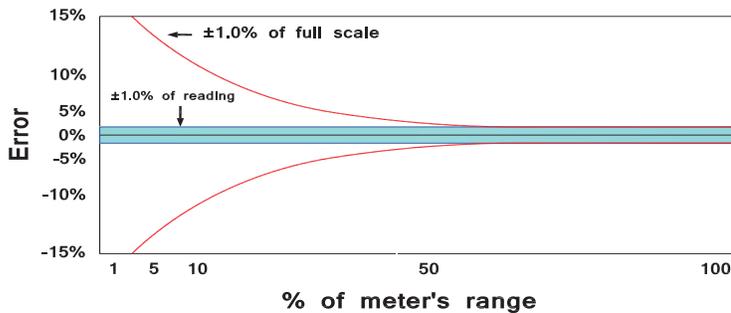
Rogowski Coils with 5 A RMS Current Output Integrator

The RCS-5A Series integrator converts Magnelab RopeCT input voltage to 5 A AC RMS output. It was designed for use with any power meter or equipment with a 5 A current transformer input. The integrator ships with three RopeCTs and a 24 V DC power supply. An ideal replacement for bulky 5 A current transformers.

### SPECIFICATIONS

Output Load	50 mΩ Maximum (or 1.8 VA max.)*
Inputs	Selectable to 5,000 A with RopeCT
Outputs	5 A @ 50 mΩ (6A max.)
Accuracy	±1.0% Full Scale Error
Phase Displacement	< 0.5°
Temperatures	UL Rated Ambient: -20% to 55°C
Leads	8ft, 600 V insulated leads (RopeCT to integrator). Suggest 18 AWG wire or larger (not included) for connecting 5 A AC output.
Power Supply	24 V DC 40 Watt Din Rail , 0.9 A DC min. Lead wire included
UL Max Voltage	600 V on bare conductor (RopeCT rating)
RMS Voltage	10,000 V withstand (RopeCT rating)
Rated Frequency	50 to 60 Hz
Certifications	UL Listed, conforms to IEC 61010-1, (RopeCT meets IEEE C57.13, IEC 60044-1)
Weight	3.57 lb (1.62 kg) in RCT-1800 Configuration
Mounting	DIN TS-35/7.5 or 15 (integrator + power supply) 12" DIN Rail + two stops provided

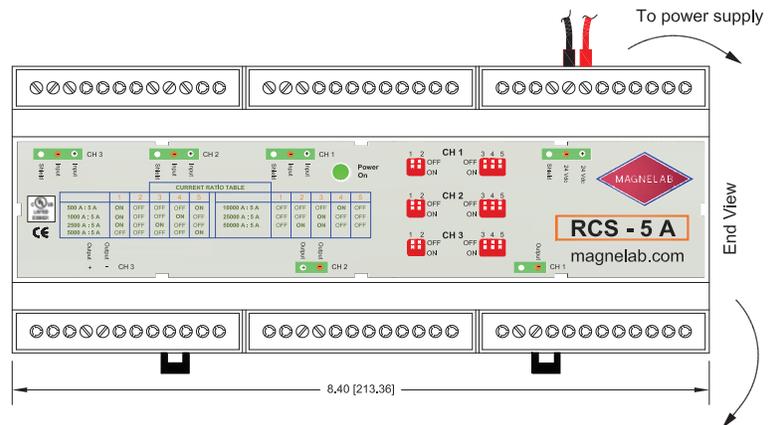
\* Important Note: RCS-5A Series integrator should be installed as close to the meter as possible to keep the load impedance under 50 mΩ, because the lead resistance increases the impedance.



\* Output leads not supplied.

### APPLICATIONS

- Submetering
- Smart Home Energy Management System
- Power Generation Monitoring
- Industrial Pump Monitoring
- Solar Consumption Monitoring
- EV Charging Stations
- Lifecycle Management of Equipment



Dimensions are Inches & Millimeters

MODEL NUMBER	COIL LENGTH	SELECTABLE INPUT RANGE
RCS-1205-VAR	12"	500, 1000, 2500, 5000 Amp
RCS-1805-VAR	18"	500, 1000, 2500, 5000 Amp
RCS-2405-VAR	24"	500, 1000, 2500, 5000 Amp
RCS-3605-VAR	36"	500, 1000, 2500, 5000 Amp

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UL US CE RoHS2 ISO9001

\*\*Magnelab reserves the right to implement modifications without prior notice