

# - RIK SERIES +

## ROGOWSKI INTEGRATOR



## 5A Rogowski Integrator Kit

### 5A Flexible Current Transformers

#### KEY FEATURES

- Flexible rope-like current sensor, designed to easily fit into panels or busbars where space is limited
- 0-5A rated output that works with any power meter or equipment with 5A nominal current transformer input
- Current sensing range from 2.5A to 50,000A to fill all systems
- Seven field-configurable CT ratios: 500A, 1kA, 2.5kA, 5kA, 10kA, 25kA, 50kA
- Individual CT ratios can be configured for each channel. Works in any single phase application with different current ratings
- Works in both 50Hz and 60Hz systems



ISO9001 Certified



## HOW THE RIK WORKS

The Accuenergy Rogowski Integrator Kit features a three channel 5A output integrator that allows for use with most power meters/equipment that feature a 5A input. The RIK offers seven selectable ranges including: 500A, 1kA, 2.5kA, 5kA, 10kA, 25kA and 50kA, with a sensing range of 0.5% to 120% of rated current input.

The RIK can be used in both 50Hz and 60Hz systems with a rated frequency range of 45Hz to 65 Hz. The Integrator itself is DIN rail or surface mountable and features a 24Vdc power supply.



## INDUSTRY RANGING COMPATIBILITY

The Rogowski Integrator Kit enhances the capabilities of existing metering systems, designed for full integration with a variety of standard metering solutions. The RIK is capable of integration with any power meter or system with a 5A current transformer input.

## BENEFITS OF ROGOWSKI COIL CURRENT TRANSFORMERS

Rogowski Coils are high-specification current transformers that are ideal for use when space is limited. The flexible form factor of a Rogowski Coil means they easily fit into tight panels and come in a range of sizes to suit most installations.

Like standard split core transformers, Rogowski coils can be easily integrated into existing panels without having to cut any lines. However, the major benefit of a Rogowski coil current transformer is its flexible form factor, allowing for installation where spatial constraints may exist.

Accuenergy Rogowski coil current transformers are available with input ranges from 5A to 50,000A AC in an array of sizes from 16" to 47".

### KEY SPECIFICATIONS

Current Measurement Range	2.5A - 60000A
Output Current	0 - 6A <sub>RMS</sub> (0 - 5A <sub>RMS</sub> Nominal)
Sensing Range	500A, 1000A, 2500A, 5000A, 10000A, 25000A and 50000A (user selectable)
Maximum Burden	1.8VA per channel
Maximum Output Impedance	50mΩ
Measurement Channels	3 (three-phase or single-phase)
Frequency	45Hz to 65Hz
Accuracy	±1% Full Scale Error
Channel Cross Talk	< -60dB
Maximum Operating Temperature	55°C (131°F)

## POWER REQUIREMENTS

Supply Voltage  $24V_{DC} \pm 5\%$

Supply Current  $0.9A_{DC} @ 24V_{DC}$

## ACCESSORIES

AC/DC Power Supply 24Vdc

85-264Vac

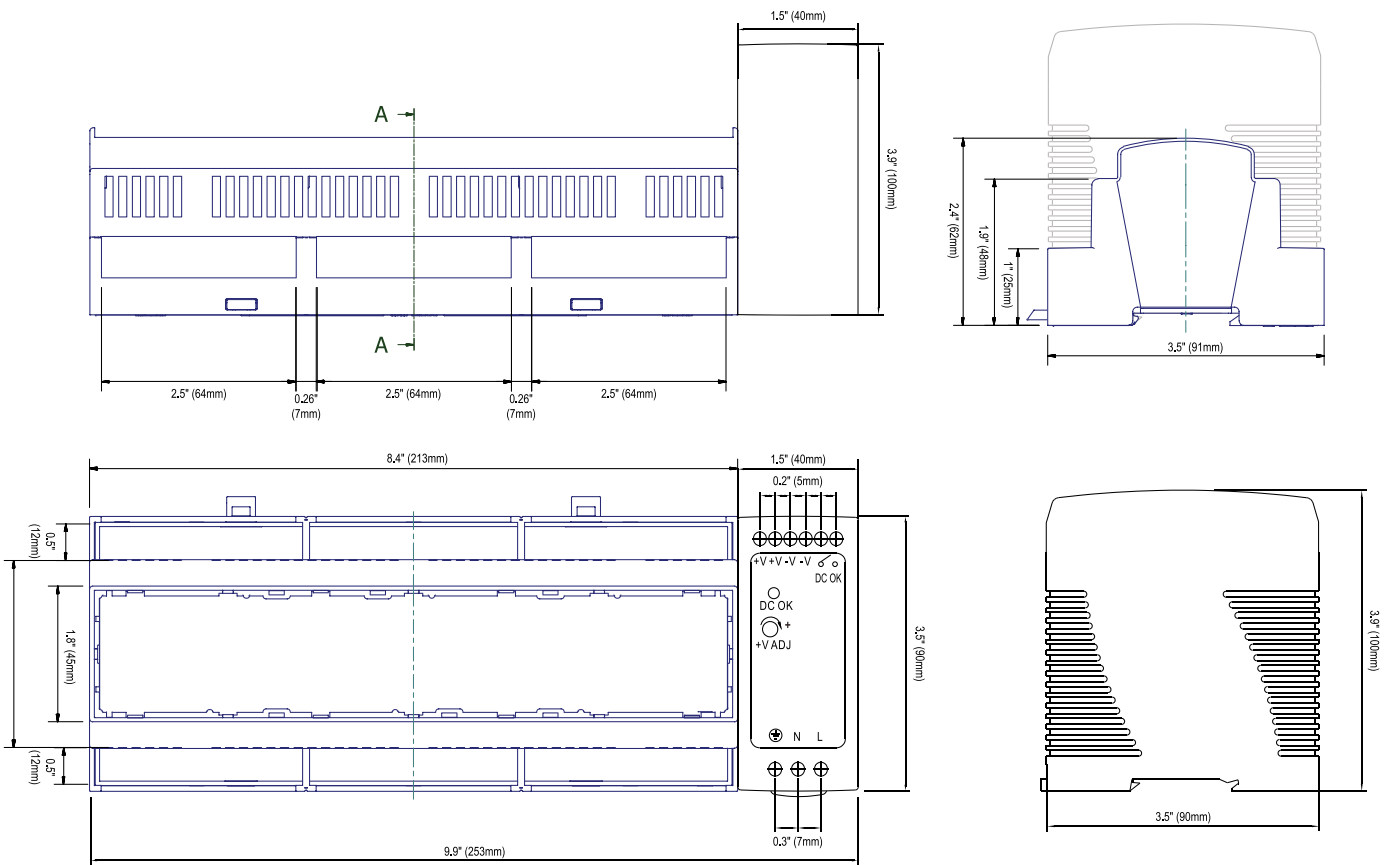
Mount Rail

DIN TS-35/7.5 or 15

## CURRENT RANGE SETTINGS

Primary Input ( $A_{RMS}$ )	Sensing Range (A)	Output	CT Ratio
500	2.5 to 600	5A @500A	500:5
1000	5 to 1200	5A @1000A	1000:5
2500	12.5 to 3000	5A @2500A	2500:5
5000	25 to 6000	5A @5000A	5000:5
10000	50 to 12000	5A @10000A	10000:5
25000	125 to 30000	5A @25000A	25000:5
50000	250 to 60000	5A @50000A	50000:5

## DIMENSIONS



## DIMENSIONS / MOUNTING

Integrator Width	3.58" (91mm)
Integrator Length	8.4" (213mm)
Integrator Height	2.4" (62mm)
Kit Width	3.58" (91mm)
Kit Length	9.96" (253mm)
Kit Height	3.93" (100mm)
Mounting	DIN TS-35/7.5 (DIN 43880) or Panel
Input Wire Connection	14 – 30 AWG
Output Wire Connection	14 – 30 AWG

## ORDERING INFORMATION

MODEL	DESCRIPTION
<b>RIK16-5A</b>	Includes three 16 inch rogowski current transformers and power supply.
<b>RIK24-5A</b>	Includes three 24 inch rogowski current transformers and power supply.
<b>RIK36-5A</b>	Includes three 36 inch rogowski current transformers and power supply.
<b>RIK47-5A</b>	Includes three 47 inch rogowski current transformers and power supply.



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