

Introduction to integrators

The combination of the rogowski coil and integrator can achieve 90° phase shift compensation and frequency equalization, so that the output of rogowski coil is in the same phase as the primary current and is frequency independent, which is suitable for more application scenarios. TRA series integrator with rogowski coil is an alternative to current transformer (CT), it is light weight, flexible and easy to install. Can be like CT secondary output industry standard 0-30mA, 0-50mA, 0-1A, 0-5A instantaneous current, proportional to the measured primary current. The TRA series can be used with power, current and power quality meters and is an ideal replacement for CT in retrofit use.

Features

- Accuracy 0.5%
- Low zero drift
- Standard 35mm din-rail
- High bandwidth measurement 30 to 5kHz
- Can be combined with RFSY rogowski coils of any size
- Can be combined with RFSZ rogowski coils of any size

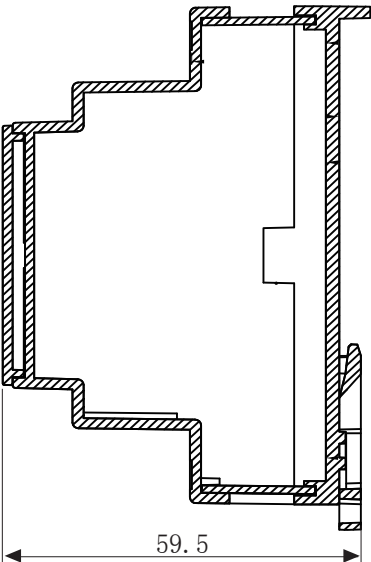
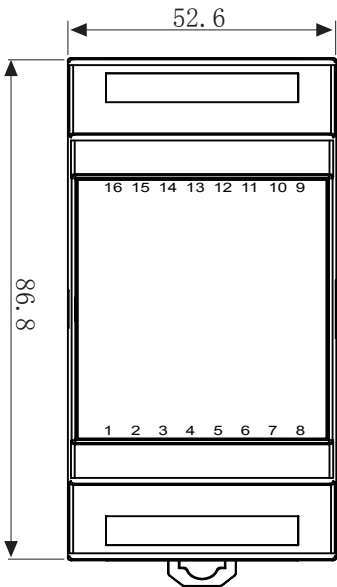
Application

- Measuring instruments, laboratory instruments
- Power monitoring system
- DC ripple measurement
- Harmonics and transient monitoring
- Dynamometer
- Power analyzer sensor

Terminal definition

- 1: +V
- 2: GND
- 3: Output
- 4: GND
- 5: Signal Vs- (Black line)
- 6: Signal Vs+ (Red line)
- 7: Shield

Dimensions (in:mm±2)



Product picture printing is for reference only, subject to the actual product



Electrical parameters: ( The following parameters are typical values and actual values will be subject to product testing )

Model	TRA03-50MAC-1	TRA03-01AC-1
Rated input	100A~10000A	
Rated output	0~50mA	0~1A
Maximum output	60mA	1.2A
Accuracy	0.5%	
Frequency range	30Hz~5KHz	
Linearity	±0.2%	
Response time	≤20ms	
Load resistance	25 Ω	0.5 Ω
Phase shift	≤1°	
Ripple coefficient	5%	
Power supply	+12V	
Mounting type	Din-rail	
Working temperature	-20℃~+60℃	
Storage temperature	-40℃~+60℃	
Waterproof grade	IP20	

