

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. TRV series integrators are instantaneous voltages that output proportional to primary current and are usually used with power analyzers, oscilloscopes, ammeters, data loggers, data acquisition cards and other devices.

Features

- Accuracy 1%
- Low zero drift
- Low power consumption
- Small size
- Can be combined with RFSY rogowski coil of any size
- Can be combined with RFSZ rogowski coil of any size

Application

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

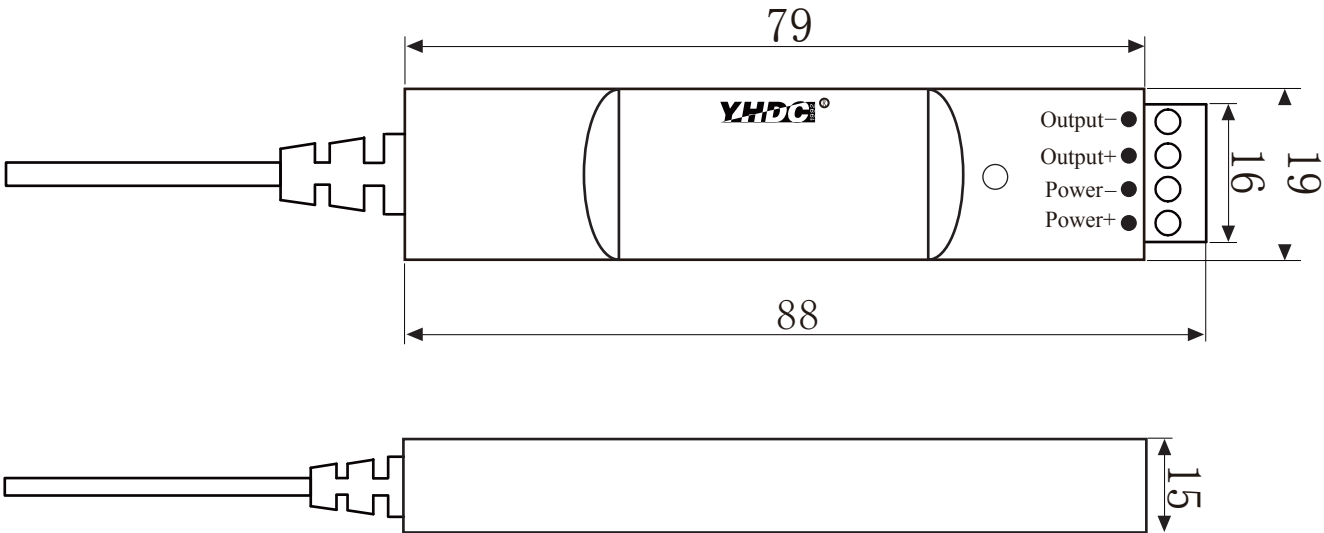
Product picture printing is for reference only, subject to the actual product



Terminal definition

- Output- ●
- Output+ ●
- Power- ●
- Power+ ●

Dimensions (in:mm±0.5)



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

| Model | TRV01-333AC-1 | TRV01-001AC-1 | TRV01-033AC-1 |
|---------------------|--|---------------|---------------|
| Rated input | 100~10000A | | |
| Rated output | 0.333V AC | 1V AC | 3.3V AC |
| Maximum output | 3.3V AC | 3.3V AC | 3.3V AC |
| Accuracy | 1% (Typical value 5%~120% of rated current at 25℃) | | |
| Frequency range | 10Hz~10KHz | | |
| Linearity | ±0.2% | | |
| Phase shift | ≤0.5° | | |
| Response time | ≤1uS | | |
| Ripple coefficient | 1% | | |
| Power supply | 12V DC | | |
| Mounting type | Suspended | | |
| Working temperature | -20℃~+60℃ | | |
| Storage temperature | -40℃~+60℃ | | |
| Waterproof grade | IP20 | | |