

# TRA series integrator

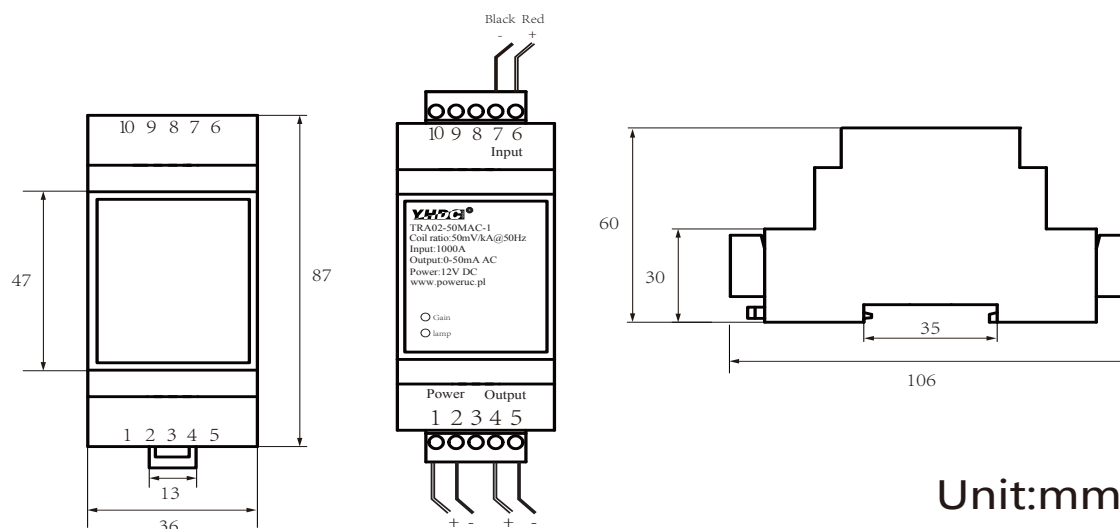
TRA series integrator is a real current transformer (CT) substitute with Rogowski coil, it is light, flexible and easy to install. It can output the industry standard instantaneous current of 0-30mA, 0-50mA, 0-1A, 0-5A in the secondary like CT, which is proportional to the measured primary current. Usually the TRA series can be used with power, current and power quality meters, and is an ideal replacement for CT in retrofit applications.



## Specification

Model	TRA02-50MAC-1
Rated Input	100~6000A
Rated Output	0~50mA AC
Maximum Output	60mA
Read Accuracy	0.50%
Frequency Range	30Hz-5kHz
Linearity	±0.2%
Phase Error	≤0.5°
Ripple Factor	5%
Power Supply	12 DC
Mounting Type	rail
Operating Temperature	from -20°C to +60°C
Storage Temperature	from -40°C to +60°C
Protection Degree	IP20

## Dimensions



## Naming rules of rogowski coil

R F S Y - 16 - 50  
 (1) (2) (3) (4) (5) (6)

(1)**R:Rogowski coil** ←

(2)**Physical structure:** ←

F: Flexible rogowski coil

H: Rigid rogowski coil

(3)**Type of output:** ←

S: Instantaneous voltage

I: Integral voltage

(4)**Type of coil:** ←

Y: Y type coil, diameter 16~70mm

Z: Z type coil, diameter 85~300mm

(5)**Diameter of coil:** ←

[16](#):16mm;[24](#):24mm;[36](#):36mm;[50](#):50mm;[70](#):70mm;[85](#):85mm;

[105](#):105mm;[120](#):120mm;[150](#):150mm;[175](#):175mm;[200](#):200mm;

[240](#):240mm;[300](#):300mm

(6)**Output of coil:** ←

50:50mV/1kA @50Hz,  $1\text{kA}@60\text{Hz}=50*60/50=50*1.2=60\text{mV}$

85:85mV/1kA @50Hz,  $1\text{kA}@60\text{Hz}=85*60/50=85*1.2=102\text{mV}$

## Naming rules of integrator

TR V 01 - 333AC - 1  
 (1) (2) (3) (4) (5)

(1)**TR: Integrator** ←

(2)**Type of integrator:** ←

V: Instantaneous voltage

A: Instantaneous current

S: Standard signal

D: Digital signal

(3)**Number of outer casing:** ←

01: Suspended type outer casing(19\*79\*15mm)

02: Din-rail type outer casing(36\*87\*60mm)

03: Din-rail type outer casing(106\*87\*60mm)

(4)**Signal of output:** ←

[333AC](#):333mV AC; [001AC](#):1V AC; [033AC](#):3.3 AC; [005AC](#):5V AC;

[30MAC](#):30mA AC; [50MAC](#):50mA AC; [01AC](#):1A AC; [05AC](#):5A AC;

[001DC](#):1V DC; [005DC](#):5V DC; [010DC](#):10 DC; [420DC](#):4-20mA DC;

(5)**Phase line:** ←

1: Single phase

3: Three-phase