

# TST013-RJ45



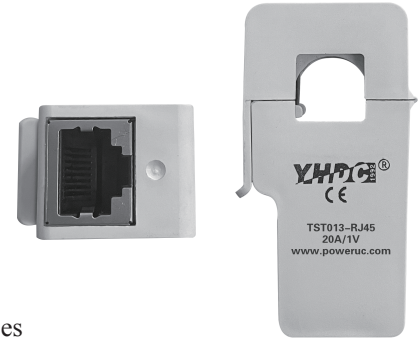
## Characteristics:

This transmitter utilizes a dedicated chip to directly measure the mean square value of arbitrary waveforms (such as square waves, triangular waves, distorted waves, etc.). It then calculates the true RMS value through an algorithm, ensuring accuracy unaffected by waveform variations. It features a clamp-on structure and outputs via an RJ45 interface.

## Product application:

- Industrial automation equipment (such as thyristor rectifier devices)
- Harmonics in power systems (non-sinusoidal waveforms like square waves, triangular waves, and their distortion components)
- New energy inverter testing (waveforms output by solar/wind energy inverters)
- Power electronics device development (capturing transient currents in power devices like IGBTs and MOSFETs)

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



## Technical index:

Operation temperature:  $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Storage temperature:  $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Dielectric strength: 2.5KV 50Hz 1min

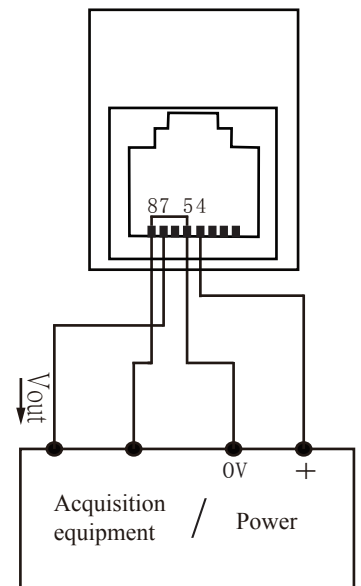
Electrical parameters: The following parameters are typical values. The actual values shall be subject to the actual measurement of the product

Rated input	5A	10A	20A	50A	100A
Input measuring range	7.5A	15A	30A	75A	100A
Rated output	0-1V				
Accuracy	1%				
linearity	1%				
Supply voltage $\pm 5\%$	$+5\text{V} \sim +12\text{V}$				
Current consumption	$\leq 10\text{mA}$				
Load impedance	$\geq 10\text{K}\Omega$				
Zero offset voltage	$\leq 10\text{mV}$				
Response time	$\leq 200\text{mS}$				
Band width	$25 \sim 1\text{KHz}$				
Weight	48g				

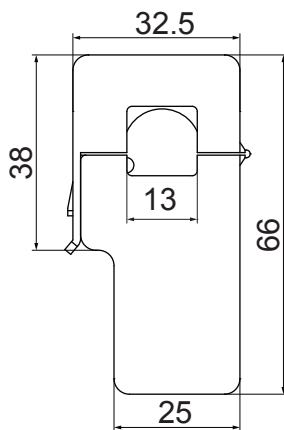
## Terminal definition:

- 4: V+
- 5: GND
- 7: Vout
- 8: GND

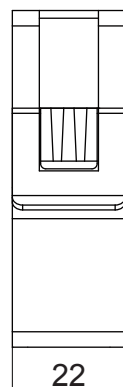
## Wiring diagram:



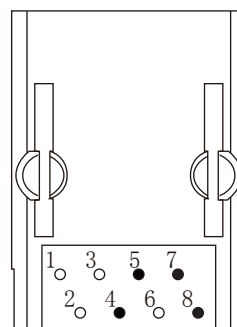
## Dimensions (unit mm $\pm 0.5$ ):



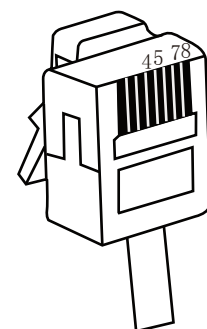
Front view



Side view



Interface terminal diagram



RJ45 Connector Pinout Diagram