



STP

3 in 1 RJ45 port Current Sensor

- 3 IN 1 current sensor with RJ45 port much easy to install
- High linearity from 1% to 100% F.S.
- Wide dynamic range
- Very useful with large size or awkward shaped conductors or in places with limited access
- Excellent degree of rejection to the external current conductor

Feature

STP is 3 in 1 RJ45 port current sensor series, it includes 333mV output Split core Current transformer and Flexible Rogowski coil both. Especially connect to ME238. Much easy to install compare to other traditional power meter.

Advantage

- Calibrated to 0.5%
- Much easy to install through RJ45
- Easy to fixed on bus-bar or cable by cable ties
- Very competitive price

Related Products

ME238







Applications

- Measuring devices, lab instrumentation
- Power monitoring & control systems
- DC ripple measurement
- Harmonics and transients monitoring
- Power meter, Power analyzer sensor

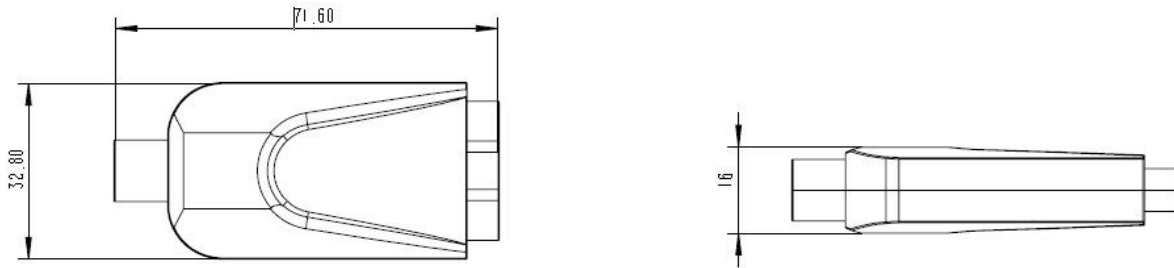
Specification

MODEL	STP-5	STP-100	STP-100R	STP-600	STP-2.5K	STP-6K
Current Sensor type	Split core Current transformer		Rogowski coil+Integrator (power 3.3V)	Rogowski coil		
Sensor Model No.	SCT-010	SCT-016	MRC-24	MRC-36	NRC-150	NRC-200
Window size	10mm	16mm	24mm	36mm	150mm	200mm
Rated current	5A	100A	100A	600A	2500A	6000A
Rated ratio	5A/333mV	100A/333mV	100A/333mV	50mV/kA@50Hz	85mV/kA@50Hz	50mV/kA@50Hz
Weight	Approx 200g	Approx 230g	Approx 490g	Approx 490g	Approx 520g	Approx 530g
Maximum current measurable	7.5A	150A	150A	620A	2900A	10000A
Sensor Cable length	1meter		2meter			
RJ45 Cable length	0.3meter					
Read Accuracy	<0.5% from 1% to 100% F.S. (central position, 25°C)					
Temperature	Calibrated 300ppm/C					
Output on 0A (zero drift)	≤0.05mV					
Phase error	≤0.5°					
Linearity	±0.2% of reading					
Bandwidth	1Hz to 10kHz(-3dB)					
Operating temperature	-30°C to 80°C					
Storage temperature	-40°C to 90°C					
REMARK	Choice STP-100R when STP-100 can't not be easy to install					
Other requirements, please contact us to OEM.						

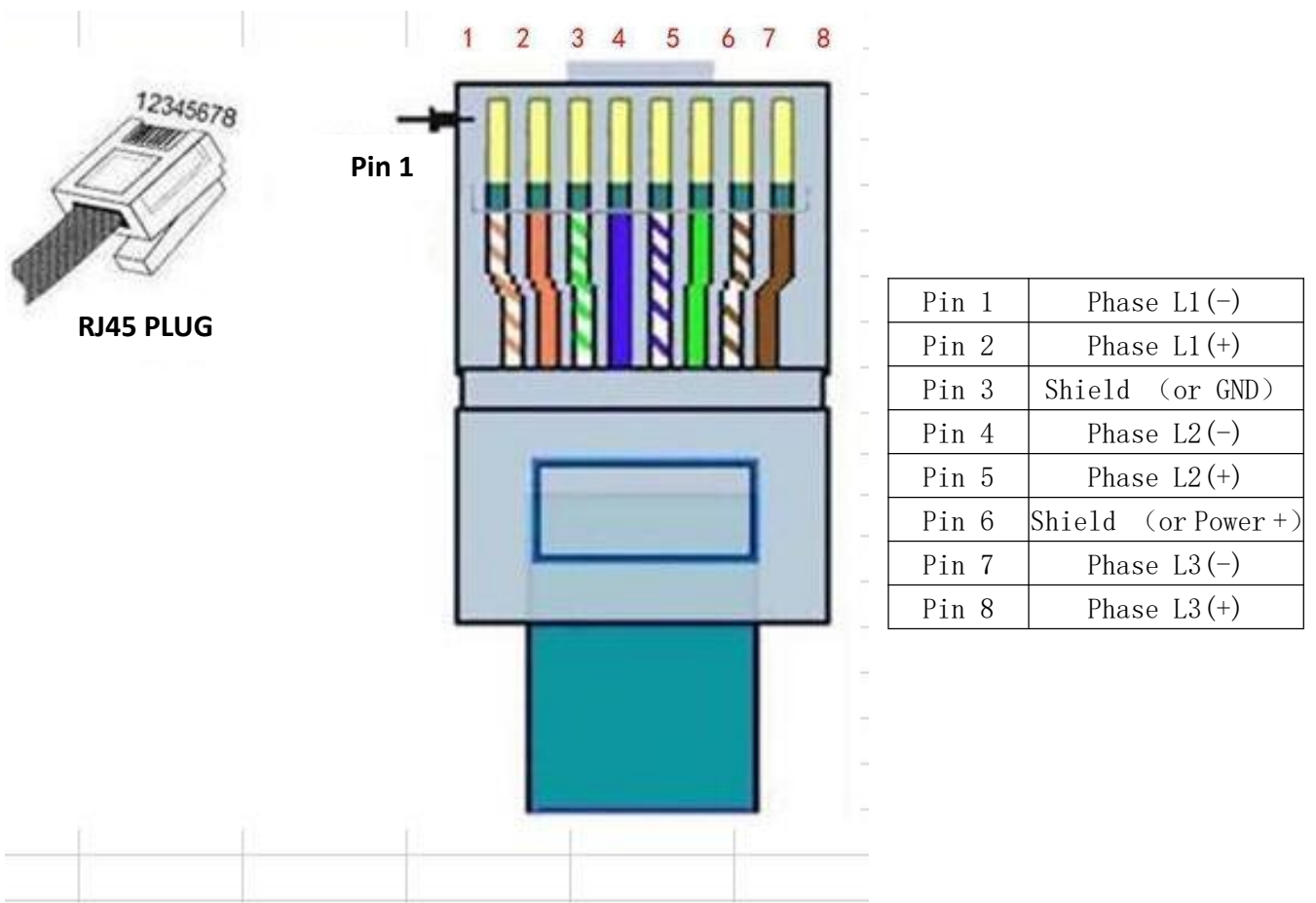
Connection Photo

<p style="text-align: center;">STP-05</p>  <p>MEATROL ELECTRICAL STP-5</p>	<p style="text-align: center;">STP-100</p>  <p>MEATROL ELECTRICAL STP-100</p>
<p style="text-align: center;">STP-100R</p> 	<p style="text-align: center;">STP-600</p>  <p>MEATROL ELECTRICAL STP-600</p>
<p style="text-align: center;">STP-2.5K</p>  <p>MEATROL ELECTRICAL STP-2.5k</p>	<p style="text-align: center;">STP-6K</p>  <p>MEATROL ELECTRICAL STP-6k</p>

Size Diagram



RJ45 Joint Definition:



Safety and warning notes

In order to guarantee safe operation of the transducer and to be able to make proper use of all features and functions, please read these instructions thoroughly! Safe operation can only be guaranteed if the transducer is used for the purpose it has been designed for and within the limits of the technical specifications. Ensure you get up-to-date technical information that can be found in the latest associated datasheet under www.rogowski.cn

Caution! Risk of danger

Ignoring the warnings can lead to serious injury and/or cause damage!

The electric measuring transducer may only be installed and put into operation by qualified personnel that have received an appropriate training. The corresponding national regulations shall be observed during installation and operation of the transducer and any electrical conductor. The transducer shall be used in electric/electronic equipment the respect to applicable standards and safety requirements and in accordance with all the related systems and components manufacturers' operating instructions.

Caution! Risk of electrical shock

When operating the transducer, certain parts of the module may carry hazardous live voltage (e.g. primary conductor). The user shall ensure to take all measures necessary to protect against electrical shock. The transducer is a build-in device containing conducting parts that shall not be accessible after installation. A protective enclosure or additional insulation barrier may be necessary. Installation and maintenance shall be done with the main power supply disconnected except if there are no hazardous live parts in or in close proximity to the system and if the applicable national regulations are fully observed.

Safe and trouble-free operation of this transducer can only be guaranteed if transport, storage and installation are carried out correctly and operation and maintenance are carried out with care.

WARNING!

Do not stress the coil by applying any kind of mechanical force (ie. twisting, puncturing, excessive pressure, tight bending, etc.) which will dramatically degrade the device's accuracy.

Order code

Coil:

Coil Model	Coil diameter (mm)	Output ratio and tolerance	Signal cable length
Code:Y-FCT	Code:200(Typical rated 500A)	Code:110 110mV/kA@50Hz±5%	
	Code:350(Typical rated 1500A)	Code:100 100mV/kA@50Hz±0.5%	
Code:NRC	Code:510(Typical rated 3kA)	Code:85 85mV/kA@50Hz±0.5%	
	Code:800(Typical rated 10kA)	Code:50 50mV/kA@50Hz±0.5%	
	Y-FCT code is length.		
Code:MRC	Code:100(Typical rated 1kA)	Code:60 60mV/kA@50Hz±5%	Code:-2m
	Code:150(Typical rated 3kA)	Code:50 50mV/kA@50Hz±0.5%	Code:-5m
	Code:200(Typical rated 6kA)	Code:50 50mV/kA@50Hz±0.5%	Code:-10m
Code:SRC	Code:16(Typical rated 100A)	Code:360 360mV/kA@50Hz±5%	Code:-20m
	Code:24(Typical rated 300A)	Code:333 333mV/kA@50Hz±0.5%	
	Code:36(Typical rated 600A)	Code:100 100mV/kA@50Hz±0.5%	
	Code:50	Code:85 85mV/kA@50Hz±0.5%	
	Code:100	Code:50 50mV/kA@50Hz±0.5%	
	Code:150	Code:50 50mV/kA@50Hz±0.5%	
Other requirement could be OEM			

Final Code=Coil model+Diameter(Y-FCT is coil length)+Output ratio+Signal cable length

For example:

NRC-150-100-2m is NRC connector,diameter 150mm,output 100mV/kA@50Hz 0.5% tolerance,signal cable length is 2meter.

Integrator:

Integrator	Output form	Output value	Rated current	Power supply		
Code:D1 (DIN-RAIL integrator)	Code: .1(AC voltage output)	Code: -333(333mV)	Code: -600A Code: -1kA Code: -3kA Code: -6kA	Code: -12(12V DC) Code: -24(24V DC)		
	Code: .2(DC voltage output)	Code: -1(1V) Code: -5(5V)				
Code:S9 (mini integrator)	Code: .1(AC voltage output)	Code: -333(333mV)		Code: -600A Code: -1kA Code: -3kA Code: -6kA	Code: -12(6-12V DC) Code: -24(24V DC)	
	Code: .2(DC voltage output)	Code: -1(1V) Code: -3(3V)				
Code:S1 (high accuracy integrator)	Code: .1(AC voltage output)	Code: -333(333mV)			Code: -600A Code: -1kA Code: -3kA Code: -6kA	Code: -12(4-12V DC) Code: -24(24V DC)
	Code: .2(DC voltage output)	Code: -5(5V) Code: -10(10V)				
Code:ATP-01 (1A output three phase integrator)	Code: .3(4-20mA output)	N/A				Code: -600A Code: -1kA Code: -3kA Code: -6kA
	N/A(0-1A)	N/A				
Code:A01 (1A output integrator)	N/A(0-1A)	N/A	Code: -600A Code: -1kA Code: -3kA Code: -6kA			
	N/A(0-5A)	N/A				
Code:A05 (5A output integrator)	N/A(0-5A)	N/A		Code: -600A Code: -1kA Code: -3kA Code: -6kA		
	N/A(0-10VAC peak)	N/A				
Code:HF (high frequency integrator)	N/A(0-10VAC peak)	N/A			Code: -600A Code: -1kA Code: -3kA Code: -6kA	
Other requirement could be OEM						

Final Code=Integrator+Output form+Output value+Rated current+Power supply

For example:

D1.1-1-500A-12 is D1 integrator,AC voltage output,500A rated,output 1V,power supply 12V DC

A01-1kA is A01 integrator,rated 1kA,output 1A,power supply 85-265V AC DC