

Description

The current sensor is used for measurement of AC current, leakage current, high order harmonic current, phase, power energy, power, power factor. It is portable, sharp nose, no need to disconnect the measured circuits, non-contact, safe and fast. Suitable for narrow and line densely places, can be connected with phase detection analyzer, industrial control equipment, data recorder, oscilloscope, harmonic analyzer, electric power quality analyzer, high precision digital multi-meter, etc. Widely applied in electricity, communication, meteorology, railway, oilfield, construction, measurement, scientific and research teaching unit, industrial and mining enterprises.



Function	Measurement of AC current, leakage current, high order harmonic current, phase, power energy, power, power factor
Test mode	clamp CT AC
Clamp Size	Diameter 50 mm
Range	0-100A or make as oer customer need, max current up to 1000A
Accuracy	1%
Reference Load	RL: $0 \sim 100\text{mA} \leq 300\Omega$; $0 \sim 10\text{mA} \leq 30\Omega$; $0 \sim 1000\text{mA} \leq 0.3\Omega$
Output Mode	Current induction output
Size	214*101*27mm, 50mm window size
Output	0-330mv
Output Wire Length	2m
Measured Wire Position	Apporximately in the geometric center of the clamp
Circuit Voltage	Lower than 600VAC
Current Frequency	45Hz-65Hz (measured current frequency)
Frequency Characteristics	10H-100kHz
Weight	500g
Working Environment	$-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$; below 80%rh
Storage Environment	$-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$; below 70%rh
Insulation Strength	AC3700v/rms (between core and shell)
Safety Rules	IEC1010-1, IEC1010-2-032, Pollution degree2, CAT III

Description

Clamp on current senses AC current from 50 to 200 Amps passing through the center conductor. Clamp on CTs are Clamp and split core design, can make installation with single hand. designed for fast and easy installation. The split core design permits non-contact current measurements through magnetic field induction without requiring that the primary wire be taken offline and disconnected for CT installation. This method permits a safer, easy and portable current measurement.



Specifications

CCT-S21-200A/330mV			
Accuracy		±0.5	%
CT Phase Angle		<1.5	Degrees
Nominal Line Frequency		60/50	Hz
Current Rating		100	A
Output		0.333V	
Over voltage Category		CATIII 600V	
Maximum Continuous Amps		200	A
MECHANICAL			
Type		Split core, clamp design	
Average Window Diameter		21	mm
Lead Wire	Type	Twisted pair	UL1015
	Length	2.4m or customized	
	Gauge	20	AWG
Material		Nylon	
ENVIRONMENTAL			
Operating Temperature Range		-40 to 85	°C
Operating Humidity		5% to 95% relative humidity	
IP Rating		30 (NEMA 1)	
UL 2808 (XOBA) LIST in process			

CCT-S24-200A/mV

Applicable scenario

- For indoor use
- Applicable cable speciications: ϕ 24mm
- Applicable pnmarycuent: 50-200A current
- Applicable for secondary output:. mA or mV optional
- Nylon housing:UL94-V0 rated
- Applicable for wire output; black and whitedouble-wire,black and white stranded wire andsheathed wire optional.length customized



Applicable Standards

Voltage Level	0.3/0.66/0.72Kv
Withstand Voltage level	3.0Kv/1min
Rated frequency	50/60Hz
Operating temperature	-20 °C to 55 °C

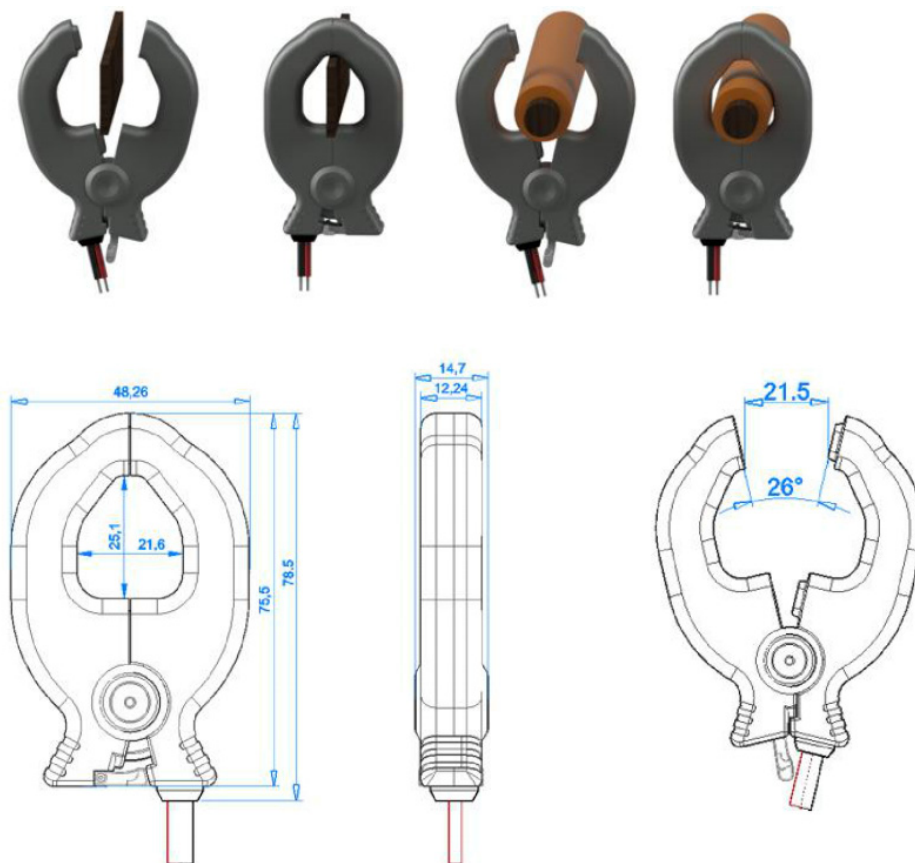
Reference Performance

Transformation ratio	50A/25mA	200A/100mA	50/100/150/200A/333mV
Current range	0.550A(RL=10Ω)	2-200A(RL=10Ω)	0.5-200A
Rated phase error	+1.5±0.5°		
Rated ratio error	±0.5%		

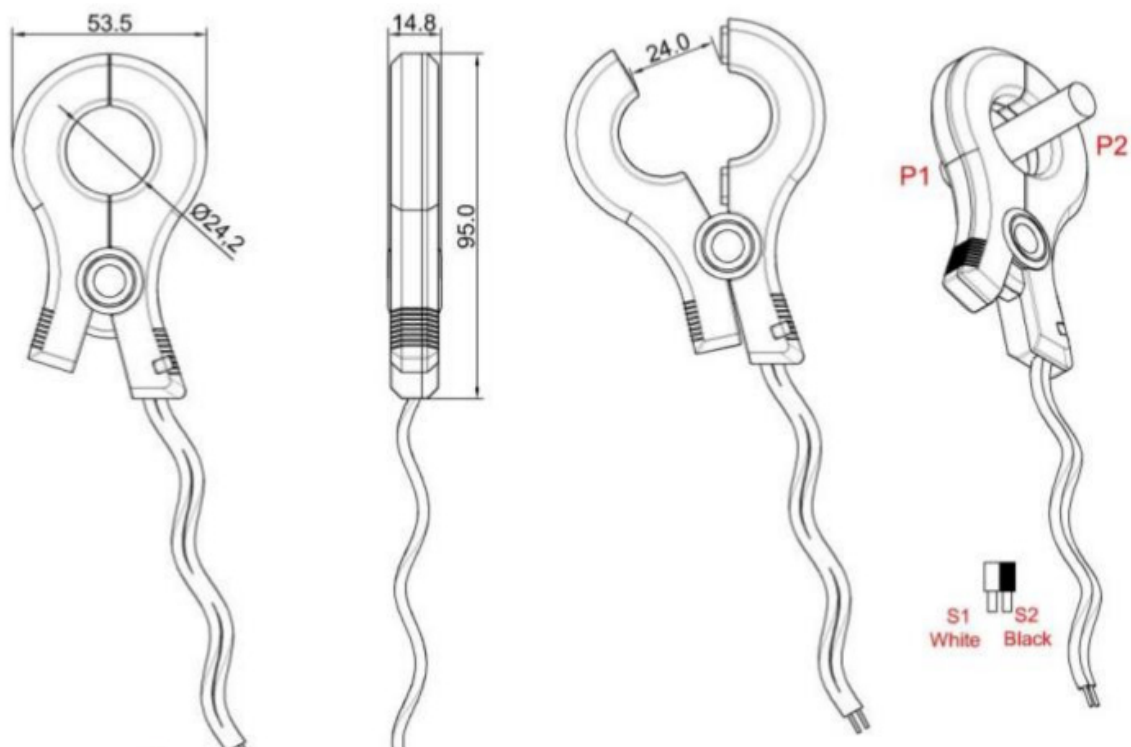


Dimensions

CCT-S21-200A/330mV(mm)



CCT-S24-200A/330mV (mm)



Description

Clamp-on hall current sensor is an open loop device based on the measuring principle of the hall effect ,with a galvanic isolation between primary and secondary circuit.It provides accurate electronic measurement of DC,AC or pulsed currents.



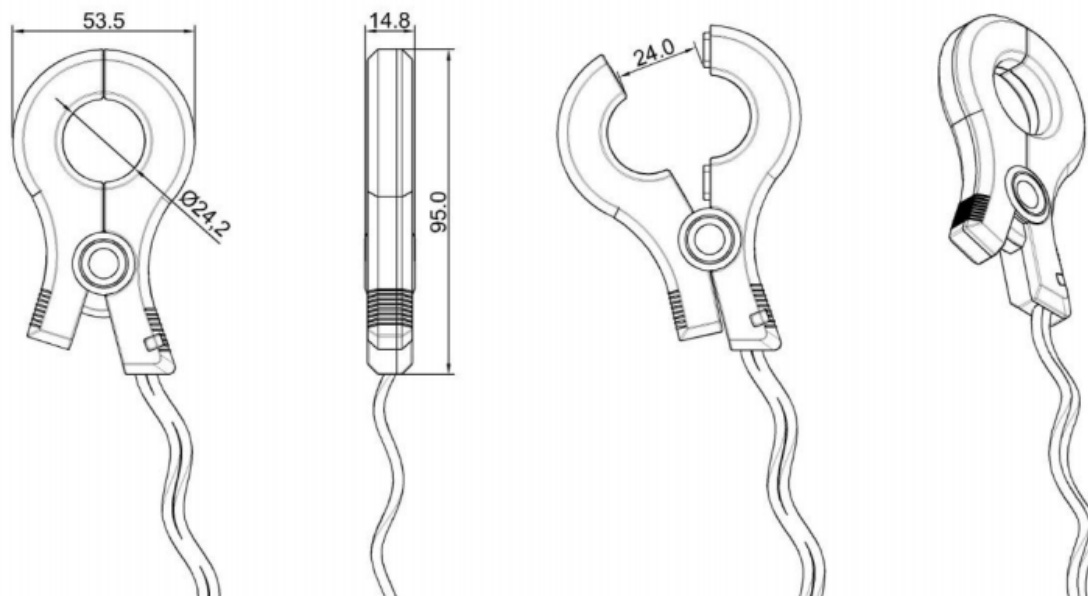
Specifications

Type	CCT-S24-200Adc/2500mA	Unit
Measure range(lp)	±200	Adc
Rated output	2.5V±0 .625 DC	V
Supply voltage	+5V	V
Power Consumption	29	mW
Offset voltage	2.5±6%	V
Temperature Error Null Drift (%/°C)	±0 .1	%/ °C
Accuracy	1%	-
Response time	3	uS
Operating temperature	-25 to +70	°C
Storage temperature	-40 to +85	°C

Applications

Variable drives,Welding machine ,Battery supplied applications, Uninterruptible Power Supplies (UPS)

Mechanical dimension(for reference only)



Remarks:

Label:VCC->Red wire GND->Black wireOUT->Green wireVREF->Yellow wire

Directions for use

1. When the current will be measured goes through a sensor, the voltage will be measured at the output end.

(Note: The false wiring may result in the damage of the sensor)

2. Custom design in the different rated input current and the output voltage are available.

Characteristics chart

Input-output characteristic curve

