



Thousand Hundred Industrial CO.,LTD.

Customer Name	豐立	Date Of Issue :	09/25/20
Description	Rogowski Coil	Sample Quantity	
Customer Part No.	1000A/100mV	Customer DWG.No.	
T.H. Part No.	RCC1020055A0	T.H. Sample No.	R012A

ACKNOWLEDGMENT SPECIFICATION FOR APPROVAL

Approved by	Checked by	Engineering	Drawn by
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CUSTOMER APPROVED

Approved by	Checked by	Acknowledged by



RoHS COMPLIANT

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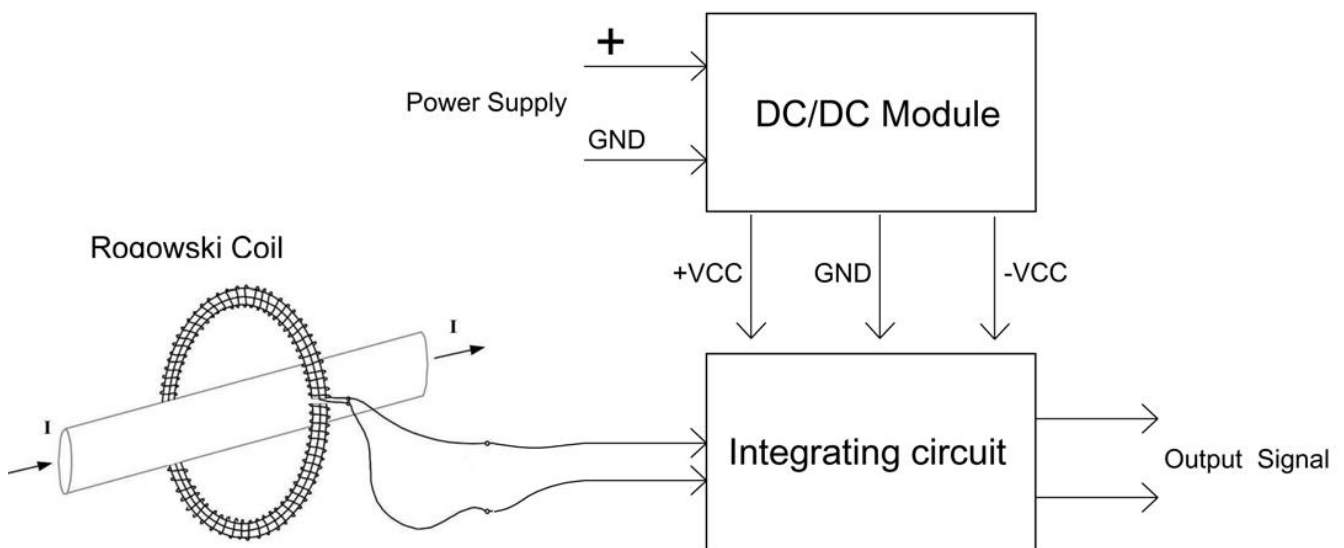
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Summary :

Rogowski Coil, it has the advantages of high bandwidth, high precision (typically 1%) characteristics. The frequency can be from several Hz to tens of MHz, current ranges from mA level to KA level, which solves the problem of current test. The main features include: AC measuring; easy to measure with thin, flexible, clip-around; Non-intrusive-loading the circuit under testing by only a few pH; Can be customized according to customer requirements, to meet the testing requirements of special occasions.

Schematic Block Diagram :



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Performance Characteristics (@f_{ip}=50Hz, TA=25°C, unless otherwise noted) :

Part Name:	RCC1020055A0	RCC1020080A0	RCC1020105A0	RCC1020180A0
Rated Current:	1000A			
Current Range:	50A...500A,1000A,...6KA.etc			
Output AC Voltage:	100mV @I _p =1000A 50Hz (120mV @I _p =1000A 60Hz)			
Output Sensitivity:	0.100mV/A AC			
Frequency:	10Hz~20KHz			
Accuracy:	<1% typical at 10% to 120% of rated current (most accurate position, 25°C)			
Linearity Err.:	±0.2% @10% to 100% of Rated Current			
Phase Shift:	< 1° at 50/60Hz (typical < 0.5°)			
Influence of External Field:	±2% Max.			
Output Sensitivity Tolerance:	±10% Max.(Uncalibrated)			
Output Sensitivity Tolerance:	±0.5% of reading at 25°C (Calibrated)			
Conductor Position Sensitivity:	±2% Max.			
Coil Circumference(mm):	197	300	378	576
Cross-section Φ:	7mm			
Output Cable:	2000 ±50mm AWM 1007 22AWG x 2C (Orange)			
Operating Temperature:	-25~+70°C			
Storage Temperature:	-25~+85°C			
Insulation Category (Flexible Probe):	3000V 1 Minutes			
Safety:	1000V CATIII ,600V CATIV			
Approx. Weight(g):	106	110	115	124

Note1: To prevent any damage to the Flexible Probe, please pull on the coil less than 2.5kgs.

Note2: Conductor Position Err. @ with cable > 15mm between the clip with mechanism.

Note3: The current waveform being measured is Sine Wave.

Note4: Humidity, 80% RH or less, no condensation.

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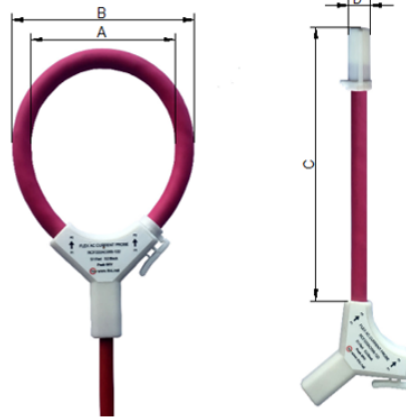
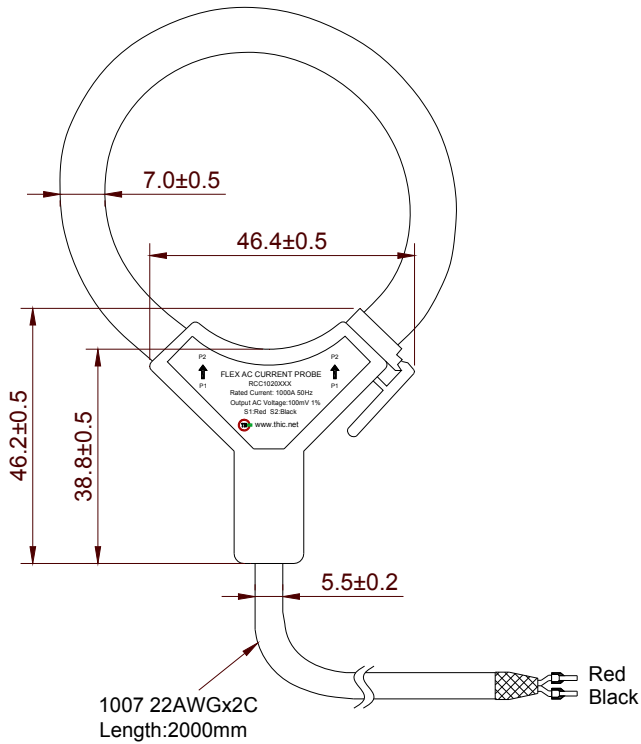


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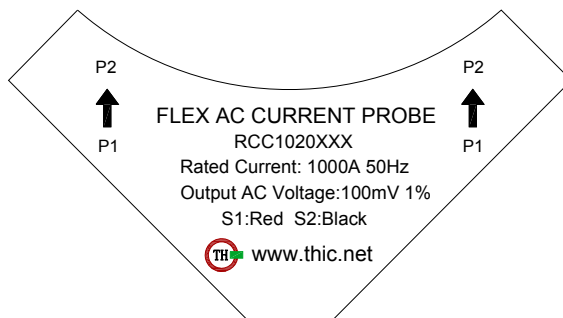
Mechanical Dimensions (Unit : mm) :

Flexible Probe:



Part Name	A	B	C	D
RCC1020055A0	55	69	197	8.8
RCC1020080A0	80	94	300	8.8
RCC1020105A0	105	119	378	8.8
RCC1020180A0	180	194	576	8.8

Marking:



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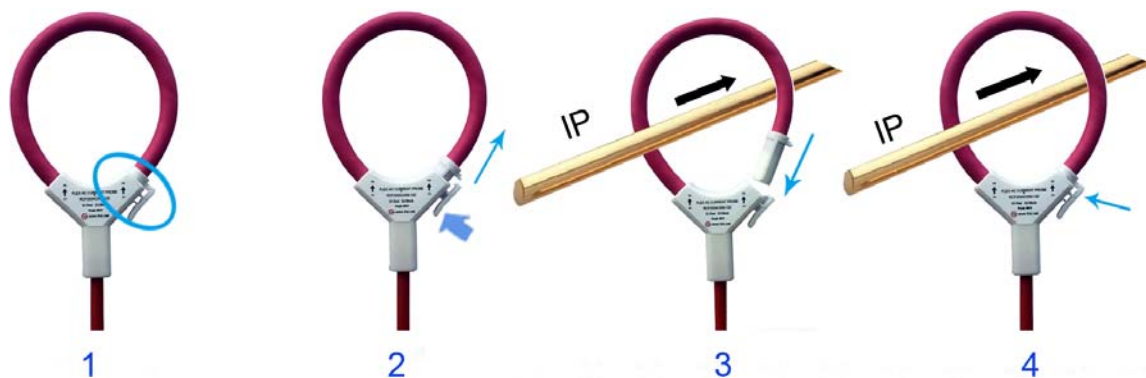
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Using Instructions :

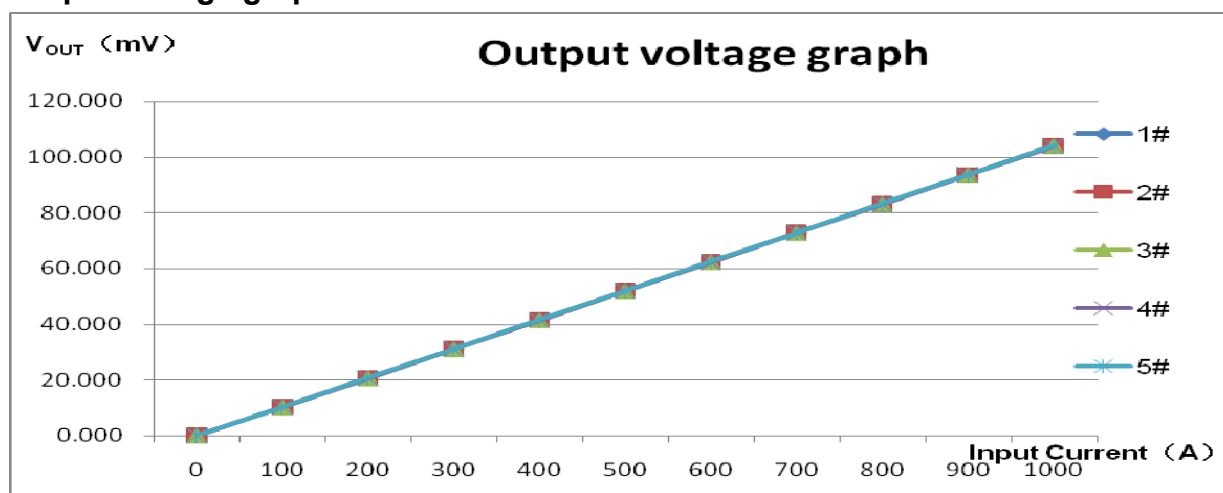


Conductor Position :



Part Name	RCC1020XXA0
Conductor Position	Typical Err.
● Adjacent to the inside coil edge	< 1%
● Adjacent to the clip together mechanism	< 2%
● Central in the coil loop	< 0.2%

Output voltage graph :



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