



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
			Ruili Lin

CUSTOMER APPROVED

Approved by	Checked by	Acknowledged by



RoHS COMPLIANT

China:

Tel : +86-769-83367090 Fax :+86-769-83367590
E-mail:dgth@thic.net www.thic.net

Taiwan:

Tel : +886-3-5994440 Fax:+886-3-5902243
E-mail : fp@thic.net www.thic.net



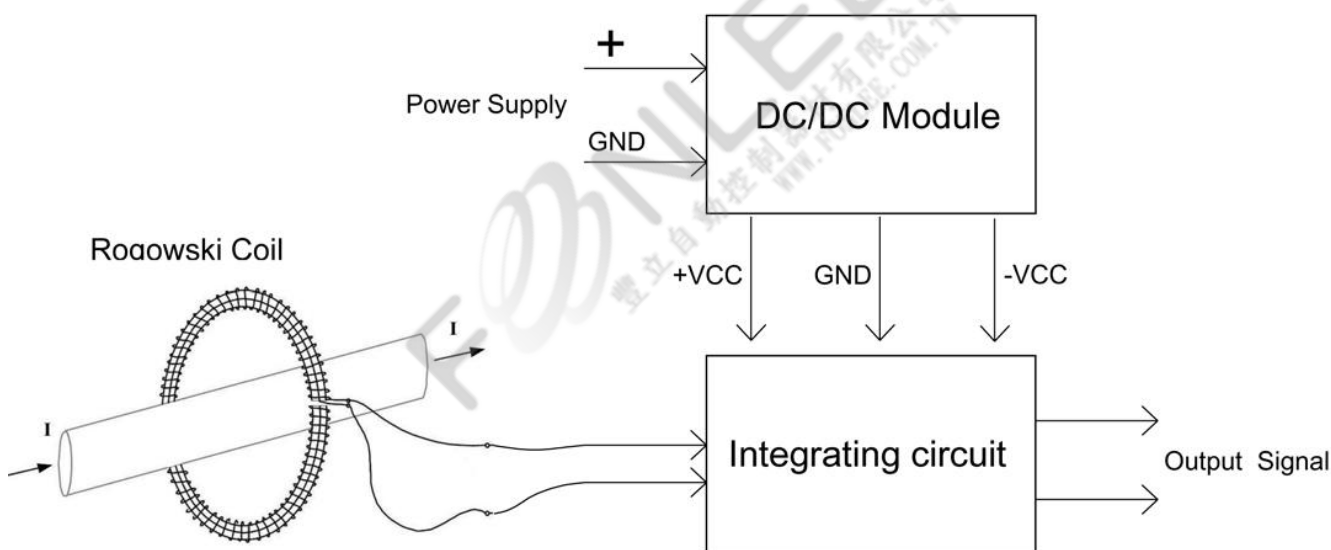
Thousand Hundred Industrial CO.,LTD.

Customer Part No.	1000A/100mV	Date Of Issue :	09/25/20
T.H. Part No.	RCC1020055A0	T.H. Sample No.	R012A

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 :



China:

Tel : +86-769-83367090 Fax :+86-769-83367590
E-mail:dgth@thic.net www.thic.net

Taiwan:

Tel : +886-3-5994440 Fax:+886-3-5902243
E-mail : fp@thic.net www.thic.net



Thousand Hundred Industrial CO.,LTD.

Customer Part No.	1000A/100mV	Date Of Issue :	09/25/20
T.H. Part No.	RCC1020055A0	T.H. Sample No.	R012A

Performance Characteristics (@f_{ip}=50Hz, TA=25℃, 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℃)			
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℃ (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℃			
Storage Temperature:	-25~+85℃			
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.

China:

Tel : +86-769-83367090 Fax :+86-769-83367590
E-mail:dgth@thic.net www.thic.net

Taiwan:

Tel : +886-3-5994440 Fax:+886-3-5902243
E-mail : fp@thic.net www.thic.net

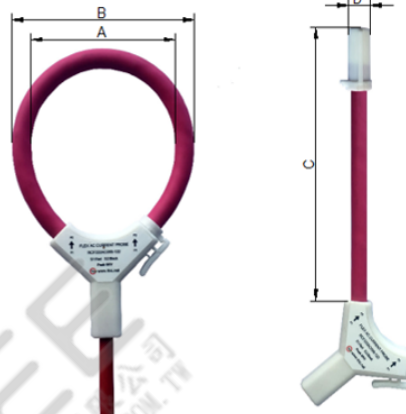
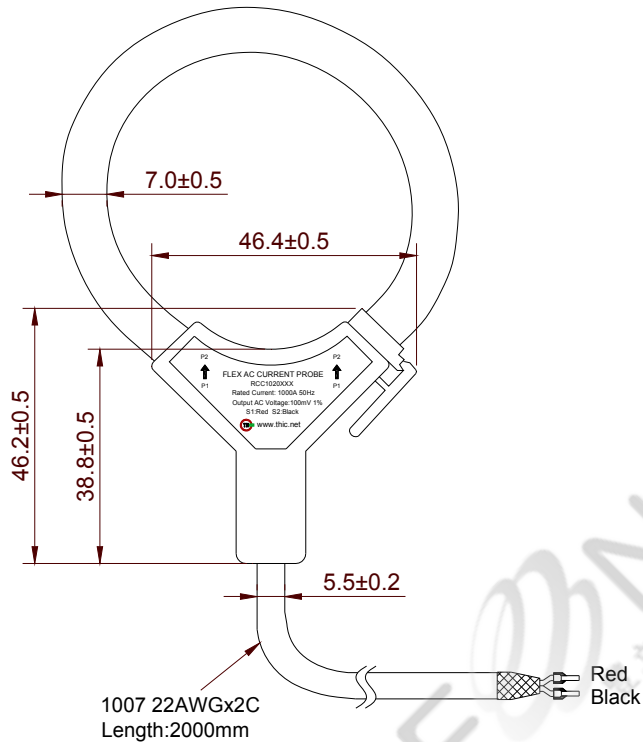


Thousand Hundred Industrial CO.,LTD.

Customer Part No.	1000A/100mV	Date Of Issue :	09/25/20
T.H. Part No.	RCC1020055A0	T.H. Sample No.	R012A

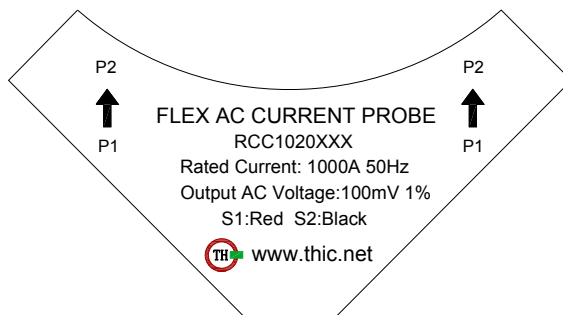
Mechanical Dimensions (Unit : mm) :

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:



China:

Tel : +86-769-83367090 Fax :+86-769-83367590
E-mail:dgth@thic.net www.thic.net

Taiwan:

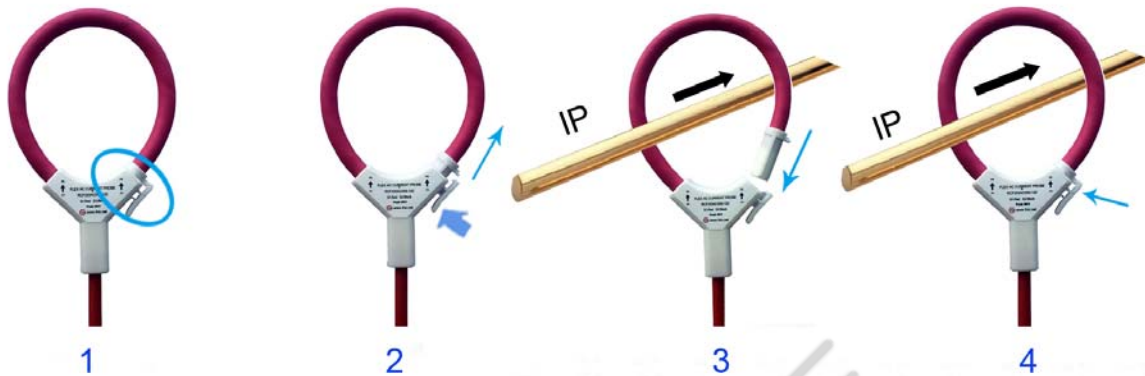
Tel : +886-3-5994440 Fax:+886-3-5902243
E-mail : fp@thic.net www.thic.net



Thousand Hundred Industrial CO.,LTD.

Customer Part No.	1000A/100mV	Date Of Issue :	09/25/20
T.H. Part No.	RCC1020055A0	T.H. Sample No.	R012A

Using Instructions :

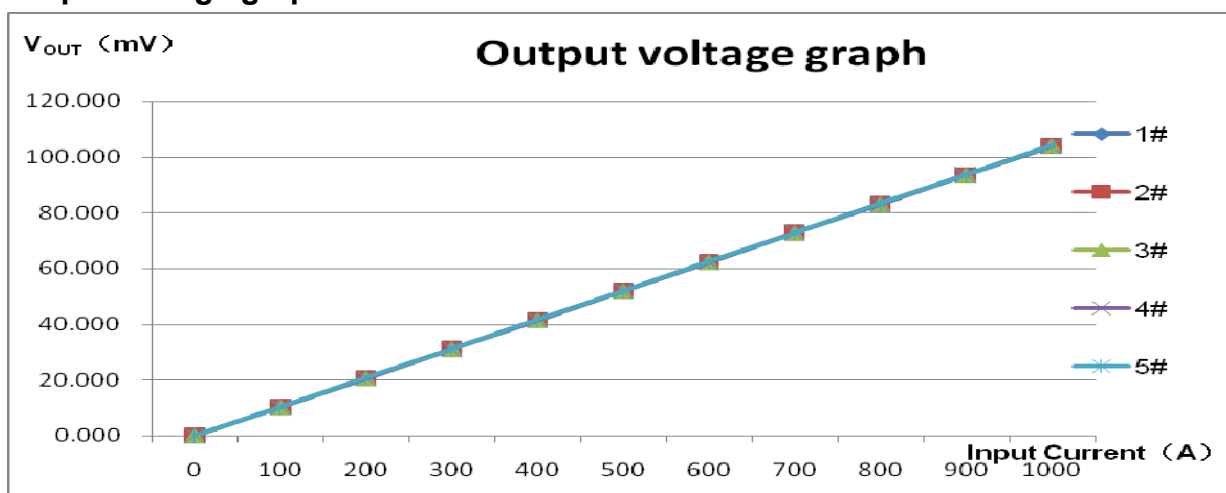


Conductor Position :



Part Name	RCC1020XXXA0
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 :



China:

Tel : +86-769-83367090 Fax :+86-769-83367590
E-mail:dgth@thic.net www.thic.net

Taiwan:

Tel : +886-3-5994440 Fax:+886-3-5902243
E-mail : fp@thic.net www.thic.net