

## TIANJIN GREWIN TECHNOLOGY CO.,LTD.

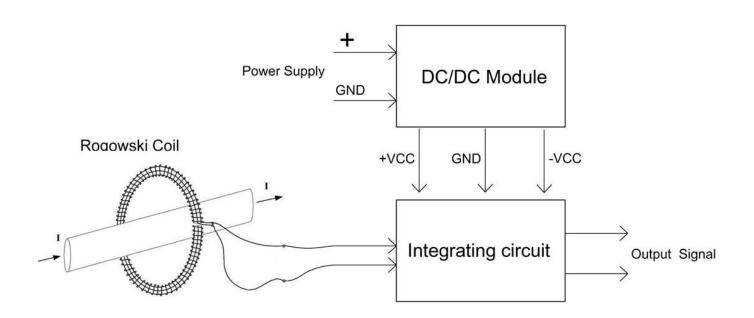
Web:www.grewin-tech.com Email:salesmanager@grewin-tech.com WhatsApp:+86-13072088960

Customer Part No.	300A	Date Of Issue :	
T.H. Part No.	GW333AC080-301	T.H. Sample No.	GW030A

#### Summay:

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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#### Parameter (@f<sub>lp</sub>=50Hz, TA=25℃, unless otherwise noted) :

Current Range         From 200A to 3000A AC           Rated Current(A)         200, 250, 500, 1000, 1200, 1500, 1500, 2000, etc.         1500, etc.         1500, 2000, etc.         2000, 3000, etc.           Rated Output         333mV AC         50/60Hz         2000, 3000, etc.         2000, 3000, etc.           Frequency         ±1% @5% to 120% of Rated Current           Linearity Error         ±0.2% @5% to 120% of Rated Current           Conductor Position Err. (see Note2)           Err. (see Note2)         ±1%           Phase Shift (see Note3)           Static State Output         Max 1.5mV AC (Typ. 0.25mV)           Load         ≥100kΩ           Operating Temp. (Flexible Probe)           Operating Temp. (Integrator)         -20℃ to 70℃           Power Supply         12V DC, 30mA Maximum           Operating Status Indicator         Green Light           Coil Circumference         197         300         378         576           Cross-section Φ         7mm         Output Interface         Pluggable Terminal           Cable Length         □500mm , or □Customized (See Mechanical Dimensions)         AC peak 6KV 1 min           Approx. Weight         206.7g         226.5g         236.6g         247.5g	Part Name	GW333AC055-XXX	GW333AC080-XXX	GW333AC105-XXX	GW333AC180-XXX
1200, etc.   1500, etc.   1500, 2000, etc.   2000, 3000, etc.	Current Range	From 200A to 3000A AC			
1200, etc.   1500, etc.   1500, 2000, etc.   2000, 3000, etc.	Data d Commant(A)	200, 250, 500, 1000,	250, 500, 1000,	500, 1000, 1200,	1000, 1200, 1500,
Frequency	Rated Current(A)	1200, etc.	1500, etc.	1500, 2000, etc.	2000, 3000, etc.
Linearity Error	Rated Output		333m	IV AC	
Linearity Error         ±0.2% @5% to 120% of Rated Current           Conductor Position Err. (see Note2)         ±1%           Influence of External Field         ±2%           Phase Shift (see Note3)         <1° at Rated Current (@50/60Hz)           Static State Output         Max 1.5mV AC (Typ. 0.25mV)           Load         ≥100kΩ           Operating Temp. (Flexible Probe)         -20°C to 70°C           Operating Temp. (Integrator)         -20°C to 70°C           Power Supply         12V DC, 30mA Maximum           Operating Status Indicator         Green Light           Coil Circumference         197         300         378         576           Cross-section Φ         7mm         Output Interface         Pluggable Terminal           Cable Length         □500mm, or □Customized (See Mechanical Dimensions)           Insulation Category (Flexible Probe)         AC peak 6KV 1 min	Frequency		50/6	60Hz	
Conductor Position   Err. ( see Note2 )	Accuracy		±1% @5% to 120	% of Rated Current	
Err. (see Note2)         ±1%           Influence of External Field         ±2%           Phase Shift (see Note3)         <1° at Rated Current (@50/60Hz)           Static State Output         Max 1.5mV AC (Typ. 0.25mV)           Load         ≥100kΩ           Operating Temp. (Flexible Probe)         -20°C to 70°C           Operating Temp. (Integrator)         -20°C to 70°C           Power Supply         12V DC, 30mA Maximum           Operating Status Indicator         Green Light           Coil Circumference         197         300         378         576           Cross-section Φ         7mm         Output Interface         Pluggable Terminal           Cable Length         □500mm, or □Customized (See Mechanical Dimensions)           Insulation Category (Flexible Probe)         AC peak 6KV 1 min	Linearity Error		±0.2% @5% to 12	0% of Rated Current	
Err. (see Note2)     Influence of External Field	Conductor Position		+1	0/2	
Field  Phase Shift (see Note3)  Static State Output  Load  Operating Temp. (Flexible Probe)  Operating Temp. (Integrator)  Power Supply  Operating Status Indicator  Coil Circumference  197  Output Interface  Cable Length  Insulation Category (Flexible Probe)  AC peak 6KV 1 min	Err. (see Note2)		Δ.	70	
Phase Shift (see Note3)         Static State Output       Max 1.5mV AC (Typ. 0.25mV)         Load       ≥100kΩ         Operating Temp. (Flexible Probe)       -20°C to 70°C         Operating Temp. (Integrator)       -20°C to 70°C         Power Supply       12V DC, 30mA Maximum         Operating Status Indicator       Green Light         Coil Circumference       197       300       378       576         Cross-section Φ       7mm         Output Interface       Pluggable Terminal         Cable Length       _500mm , orCustomized (See Mechanical Dimensions)         Insulation Category (Flexible Probe)       AC peak 6KV 1 min			±2	2%	
( see Note3 ) <1° at Rated Current (@50/60Hz)   Static State Output Max 1.5mV AC (Typ. 0.25mV)   Load ≥100kΩ   Operating Temp. (Flexible Probe) -20°C to 70°C   Operating Temp. (Integrator) -20°C to 70°C   Power Supply 12V DC, 30mA Maximum   Operating Status Indicator Green Light   Coil Circumference 197 300 378 576   Cross-section Φ 7mm   Output Interface Pluggable Terminal   Cable Length □500mm, or □Customized (See Mechanical Dimensions)   Insulation Category (Flexible Probe) AC peak 6KV 1 min					
Static State Output       Max 1.5mV AC (Typ. 0.25mV)         Load       ≥100kΩ         Operating Temp. (Flexible Probe)       -20°C to 70°C         Operating Temp. (Integrator)       -20°C to 70°C         Power Supply       12V DC, 30mA Maximum         Operating Status Indicator       Green Light         Coil Circumference       197       300       378       576         Cross-section Φ       7mm         Output Interface       Pluggable Terminal         Cable Length       500mm, or Customized (See Mechanical Dimensions)         Insulation Category (Flexible Probe)       AC peak 6KV 1 min		<1° at Rated Current (@50/60Hz)			
Load ≥100kΩ   Operating Temp. (Flexible Probe) -20°C to 70°C   Operating Temp. (Integrator) -20°C to 70°C   Power Supply 12V DC, 30mA Maximum   Operating Status Indicator Green Light   Coil Circumference 197 300 378 576   Cross-section Φ 7mm   Output Interface Pluggable Terminal   Cable Length □500mm, or □Customized (See Mechanical Dimensions)   Insulation Category (Flexible Probe) AC peak 6KV 1 min	· · · · · · · · · · · · · · · · · · ·	,			
Operating Temp. (Flexible Probe)       -20℃ to 70℃         Operating Temp. (Integrator)       -20℃ to 70℃         Power Supply       12V DC, 30mA Maximum         Operating Status Indicator       Green Light         Coil Circumference       197       300       378       576         Cross-section Φ       7mm         Output Interface       Pluggable Terminal         Cable Length       □500mm, or □Customized □ (See Mechanical Dimensions)         Insulation Category (Flexible Probe)       AC peak 6KV 1 min	Static State Output	Max 1.5mV AC ( Typ. 0.25mV )			
Content   Co	Load	≥100kΩ			
(Flexible Probe)         Operating Temp. (Integrator)       -20°C to 70°C         Power Supply       12V DC, 30mA Maximum         Operating Status Indicator       Green Light         Coil Circumference       197       300       378       576         Cross-section Φ       7mm         Output Interface       Pluggable Terminal         Cable Length       □500mm, or □Customized □ (See Mechanical Dimensions)         Insulation Category (Flexible Probe)       AC peak 6KV 1 min	Operating Temp.	-20℃ to 70℃			
Power Supply	· · · · · · · · · · · · · · · · · · ·	-200 10700			
Power Supply   12V DC, 30mA Maximum		-20°C to 70°C			
Operating Status Indicator         Coil Circumference       197       300       378       576         Cross-section Φ       This is a section The control of the control	( Integrator )	200.0700			
Green Light         Coil Circumference       197       300       378       576         Cross-section Φ       7mm         Output Interface       Pluggable Terminal         Cable Length       500mm, or	Power Supply	12V DC, 30mA Maximum			
Cross-section Φ       7mm         Output Interface       Pluggable Terminal         Cable Length       500mm, or Customized (See Mechanical Dimensions)         Insulation Category (Flexible Probe)       AC peak 6KV 1 min		Green Light			
Output Interface       Pluggable Terminal         Cable Length       500mm, or Customized (See Mechanical Dimensions)         Insulation Category (Flexible Probe)       AC peak 6KV 1 min	Coil Circumference	197	300	378	576
Cable Length 500mm, or Customized (See Mechanical Dimensions)  Insulation Category (Flexible Probe)	Cross-section Φ	7mm			
Insulation Category (Flexible Probe)  AC peak 6KV 1 min	Output Interface	Pluggable Terminal			
( Flexible Probe )	Cable Length	(See Mechanical Dimensions)			
Approx. Weight         206.7g         226.5g         236.6g         247.5g		AC peak 6KV 1 min			
	Approx. Weight	206.7g	226.5g	236.6g	247.5g

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.

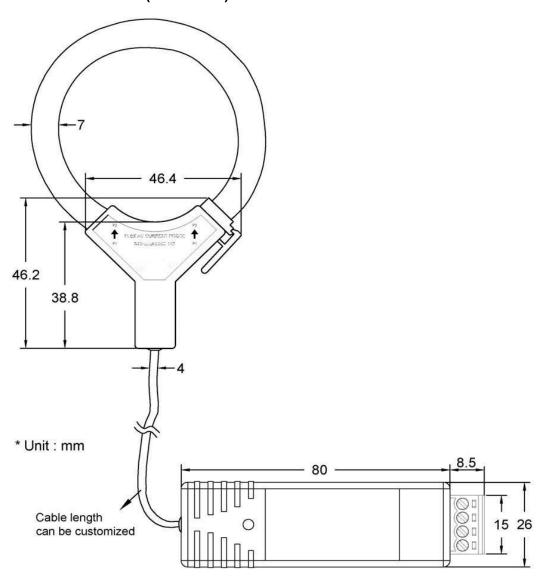
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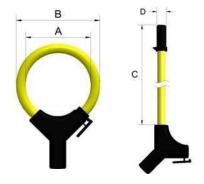
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### Mechanical Dimensions (Unit: mm):



#### Flexible Probe



Part Name	Α	В	С	D
GW333AC055-XXX	55	68	197	8.8
GW333AC080-XXX	80	93	300	8.8
GW333AC105-XXX	105	118	378	8.8
GW333AC180-XXX	180	193	576	8.8

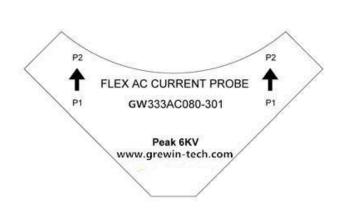
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#### Marking:



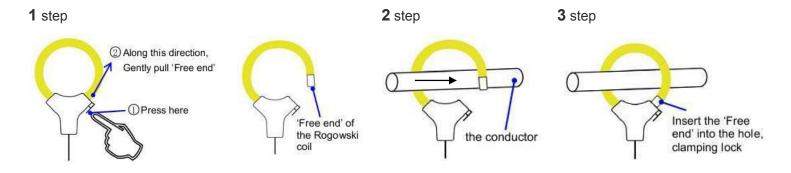
GW333AC080-301	OUT
Current Transducer	OUT-
Power Supply: 12V DC	OUT+
Primary current: 300A @50/60Hz	VCC-
Outpu: 333mV AC www.grewin-tech.com	VCC+

#### **Conductor Position:**



Part Name	GW333AC055-XXX, GW333AC080-XXX, GW333AC105-XXX, GW333AC180-XXX,	
Conductor Position	Typical Err.	
<ul> <li>Adjacent to the inside coil edge</li> </ul>	< 1%	
Adjacent to the clip together mechanism	< 2%	
Central in the coil loop	< 0.2%	

### **Using Instructions:**

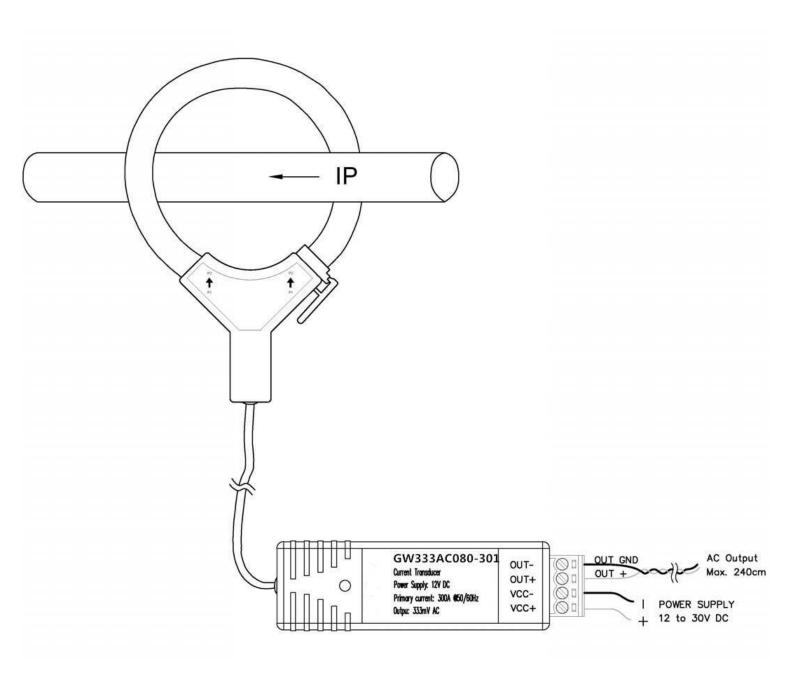


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#### **Connection:**



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