



Meatrol Introduction

Meatrol specialises in the production and development of current sensor and its related meter. Over the years, we have cooperated with many domestic leading research institutions, and have successfully developed Rogowski coil with intellectual property.

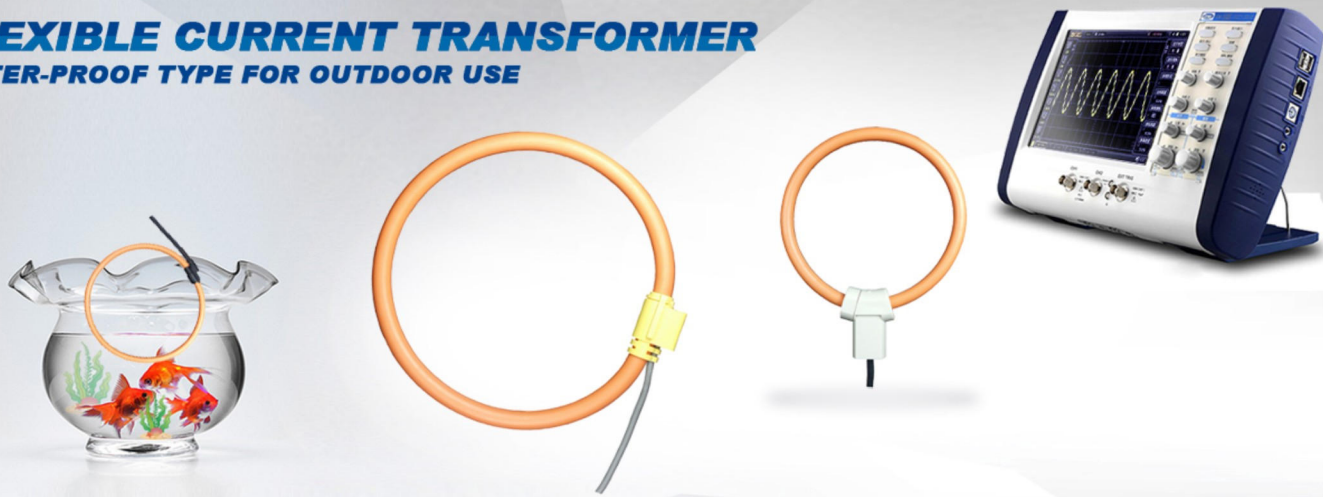
Our main products include flexible Rogowski coil, rigid Rogowski coil, split core current sensor, handheld integrator, DIN Rail integrator, intelligent power meter, wireless power analyser, power taking module, arc fault protector and so on.

Over the years, Meatrol has had a rich experience in electric furnace, power analyse, lightning test, pulse current test, power meter, power monitoring, electric vehicles, relay protection, precise current measurement, harmonic tests, wind power generation, welding,electroplating, frequency conversion and leakage protection.

With a professional and dedicated attitude, we will spare no effort in further development in current detection field, provide customers with excellent products and services, and lead a new direction in the development of our industry.



FLEXIBLE CURRENT TRANSFORMER
WATER-PROOF TYPE FOR OUTDOOR USE



Rogowski coil



Thin Rogowski coil
ZRC



"Y" Flexible Rogowski coil
Y-FCT



Thin Rogowski coil
NRC



Mini Rogowski coil
MRC



Rigid Rogowski coil
RCT



PCB Rogowski coil
PRC



Medium Voltage Rogowski coil
MVRCS



Split core current transformer
SCT

Integrator



DIN-RAIL integrator
Output:333mV/4-20mA/0-10VAC/0-4VDC
D1



High accuracy integrator
Output:333mV/4-20mA/0-5VAC/0-5VDC
S1



333mV output three
phase integrator
DTP01



1A output single
phase integrator
DA01



1A output three
phase integrator
ATP01



1A rms output integrator
A01



5A rms output integrator
A05



High frequency integrator
Output:0-10VAC
HF



4-20mA output
waterproof integrator
S9.4



Single phase two rated
current handheld integrator
S2.1



333mV output three
phase RJ45 integrator
STP

Power analyzer



Multi-functional power meter
ME437



DIN-RAIL 3-phase power meter
ME631



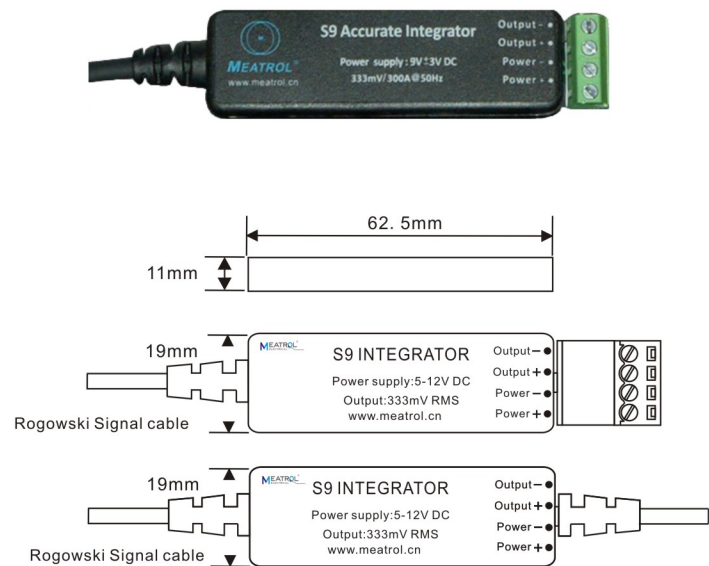
Handheld Data Logger
ME440



NO LCD power meter board
ME531



Handheld Power logger
ME435



S9 Mini integrator

S9 is a mini Rogowski coil integrator combine with power meter or PLC, in a plastic enclosure, powered directly from the mains.

Feature

S9 can be combined with any model and size of Y– FCT or NRC Rogowski coils.

The available values are: 0–10VDC,0–10V rms,333mV rms .
On request the input value can be customized according to the application.

S9 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.

Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- Smart volume for limited space installation
- Low power consumption
- Lower zero drift down to 5mV

Related Products

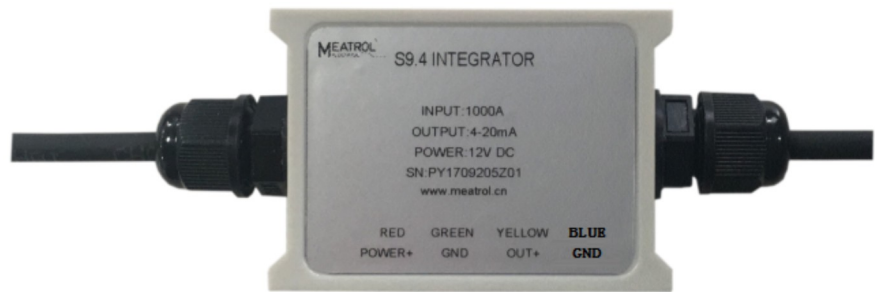
Y–FCT NRC MRC ZRC RCT

Applications

- Measuring devices
- Power meter measurement
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement
 - PLC control

Specification

Model	S9.1	S9.2
Rated output	333mV, 3V AC rms	4V DC(true-rms)
Maximum Output(overload)	4.5V AC peak	4.5V DC
Output Ripple factor	1%	Default 5% (relay to Response time)
Response time	≤1us	Default 100ms(adjustable)
Power consumption	70mW	100mW
Bandwidth	10Hz to 20Hz(± 3dB)	
Power supply	5V or 6-12V	6-12V
Rated Input	100A 600A 1000A 3000A 6000A	
Read Accuracy	1% typical at 1%(>10A) to 200% of rated Current @25°C	
Phase error	≤0.5°	
Linearity	±0.2% of reading(1% to 200% of range)	
Minimum Current measurement	1A (Ripple 100mA)	
Output on 0A(zero drift)	≤1mV (rated outut ≥2.5V: zero drift<10mV)	
Temperature drift	200ppm/°C	
Weight	20g	
Dimension	62.5*19*11mm	
Operating temperature	-20°C to 70°C	
Storage temperature	-30°C to 90°C	
Relative humidity:	80% max.without condensation	
Protection degree:	IP20	
Other requirements, please contact us to OEM.		



S9.4 Waterproof integrator

S9.4 is a waterproof Rogowski coil integrator combine with power meter or PLC,in a plastic enclosure, powered directly from the mains.

Feature

S9 can be combined with any model and size of Y-FCT,MRC or NRC Rogowski coils.

The available values are: 4–20mA DC.
On request the input value can be customized according to the application.

S9 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.

Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- Smart volume for limited space installation
- Low power consumption
- IP68

Related Products

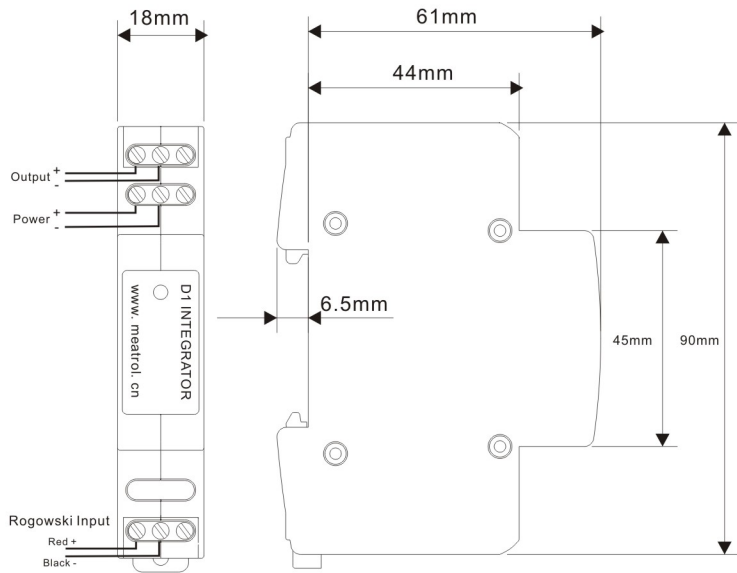
Y-FCT,MRC,NRC,ZRC

Applications

- Measuring devices
- Power meter measurement
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement
 - PLC control

Specification

Model	S9.4
Rated output	4-20mA DC
Maximum Output (overload)	25mA DC
Output Ripple factor	Default 5% (relay to Response time)
Response time	Default 100ms(adjustable)
Power consumption	100mW
Bandwidth	30Hz to 1kHz
Power supply	12V or 24V DC
Rated Input	100A 600A 1000A 3000A 6000A
Output Wire	0.5 meter 4pcs wires (RED:power+, GREEN:GND,YELLOW:output +,BLUE:GND)
Read Accuracy	1% typical at 1%(≥10A) to 200% of rated Current @ 25℃
Phase error	≤0.5°
Linearity	± 0.2% of reading(1% to 200% of range)
Minimum Current measurement	1A (Ripple 100mA)
Temperature drift	200ppm/℃
Weight	20g
Dimension	53*38*25mm
Operating temperature	–20℃ to 70℃
Storage temperature	–30℃ to 90℃
Relative humidity:	80% max.without condensation
Protection degree:	IP68
Other requirements,please contact us to OEM.	



D1 Industrial integrator

D1 is a Industrial Rogowski coil integrator installation in distribution box,in a plastic 1 module DIN-RAIL enclosure, powered directly from the mains.

Feature

D1 can be combined with any model and size of Y-FCT or NRC Rogowski coils.
The available values are: 0-5VDC, 0-5VAC, 4-20mAC.
On request the input value can be customized according to the application.
D1 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.
Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- Easy to install with DIN–RAIL
- High bandwidth for measurement 5 to 20kHz
- Lower zero drift down to 2mV

Related Products

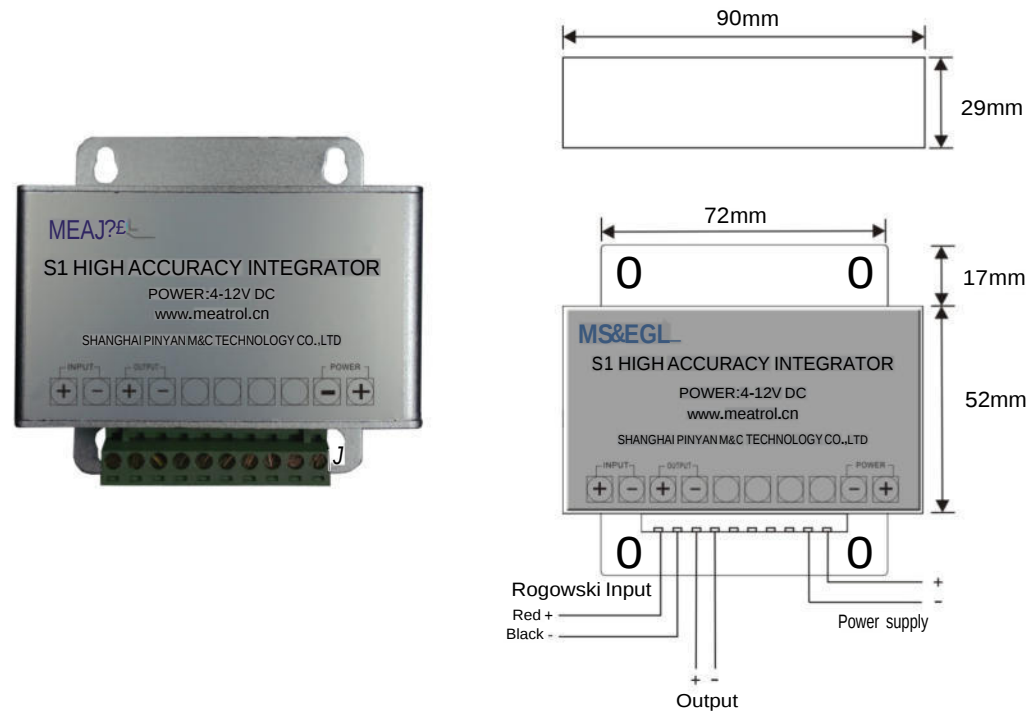
Y–FCT,ZRC,NRC,MRC

Applications

- Measuring devices
- Power monitoring & analysis
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement
 - PLC control

Specification

Model	D1.1	D1.2	D1.3
Rated output	5V AC rms	5V DC(true-rms)	4-20mA
Maximum Output(overload)	10V AC rms	5V DC	25mA
Output Ripple factor	0.5%	Default 5% (relay to Response time)	
Response time	≤1us	Default 100ms(adjustable)	
Power consumption	150mW	200mW	
Bandwidth	10Hz to 20Hz （ ± 3dB）		
Rated Input	100A 600A 1000A 3000A 6000A		
Read Accuracy	0.5% typical at 1%(≥10A) to 200% of rated Current @ 25℃		
Phase error	≤0.5°		
Linearity	± 0.2% of reading(1% to 200% of range)		
Minimum Current measurement	1A (Ripple 100mA)		
Output on 0A (zero drift)	≤2mV		
Temperature drift	200ppm/℃		
Weight	60g		
Dimension	90*61*18mm		
Power supply	12V or 24V(best performance on 24V default)		
Operating temperature	-20℃ to 70℃		
Storage temperature	-30℃ to 90℃		
Relative humidity:	80% max.without condensation		
Protection degree:	IP20		
Other requirements, please contact us to OEM.			



S1 High Accuracy integrator

S1 is a High Accuracy Rogowski coil integrator, in a compact shield aluminium alloy enclosure, powered directly from the mains.

Feature

S1 can be combined with any model and size of Y-FCT or NRC Rogowski coils.
The available values are: 0-10VDC, 0-10V peak, 4-20mA.
On request the input value can be customized according to the application.
S1 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.
Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.2%
- Wide power supply arranged-12VDC or 24VDC
- High bandwidth for measurement 5 to 20kHz
- Lower zero drift down to 1.5mV

Related Products

Y-FCT, MRC, NRC, ZRC

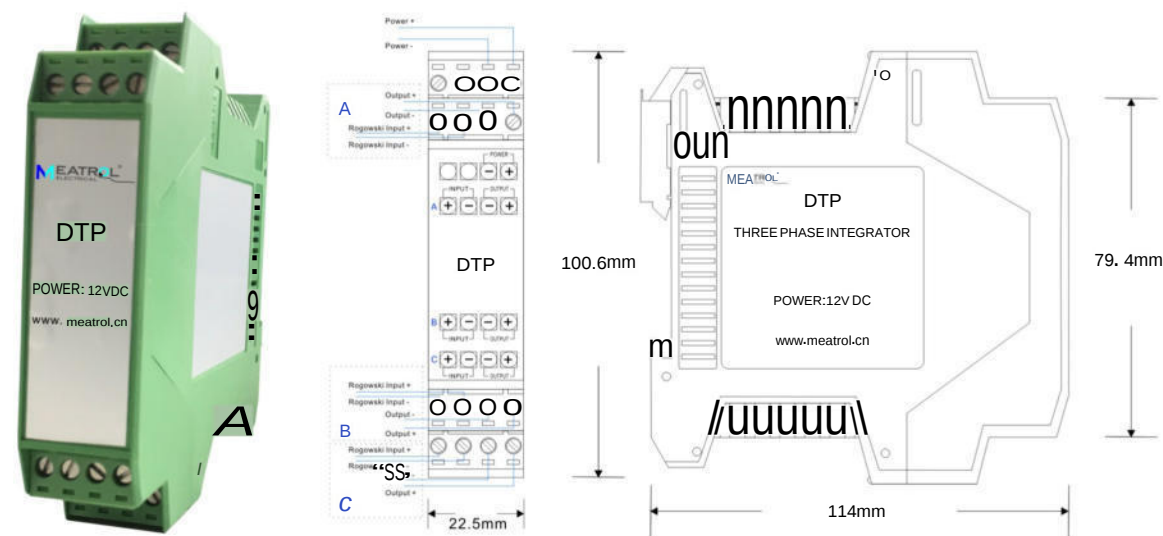
Applications

- Measuring devices, lab instrumentation
- Power monitoring & control systems
 - Harmonics and transients monitoring
 - DC ripple measurement
 - Welding machine control
 - High current measurement

Specification

Model	S1.1	S1.2	S1.3
Rated output	5V AC rms	5V DC(true-rms)	4-20mA
Maximum Output(overload)	10V AC rms	10V DC	25mA
Output Ripple factor	0.2%	Default 5% (relay to Response time)	
Response time	∧1us	Default 100ms(adjustable)	
Power consumption	150mW	200mW	
Rated Input	600A		
	3000A		
	10000A		

	100kA		
Read Accuracy	0.2% typical at 1% to 200% of rated Current @ 25°C		
Phase error	≤0.5°		
Linearity	± 0.2% of reading(1% to 200% of range)		
Bandwidth	5Hz to 50kHz(−3dB)		
Minimum Current measurement	500mA (Ripple 100mA)		
Output on 0A (zero drift)	∧1.5mV		
Temperature drift	200ppm/°C		
Weight	155g		
Dimension	86*90*29mm		
Power supply	4–12V or 24V(best performance on 4–12V default)		
Operating temperature	−20°Cto 70°C		
Storage temperature	-30°Cto 90°C		
Relative humidity:	80% max.without condensation		
Protection degree:	IP20		
Other requirements,please contact us to OEM.			



DTP integrator

DTP is a THREE PHASE DIN-RAIL Vac/dc Output Rogowski coil integrator installation in distribution box,in a plastic 1 module DIN-RAIL enclosure, powered directly from the mains.

Feature

DTP can be combined with any model and size of Y-FCT or NRC Rogowski coils.
The available values are: 333mV,5V AC rms
On request the input value can be customized according to the application.
DTP and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.
Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- Compact DIN-RAIL construction
- Low power consumption
- Lower zero drift down to 5mV

Related Products

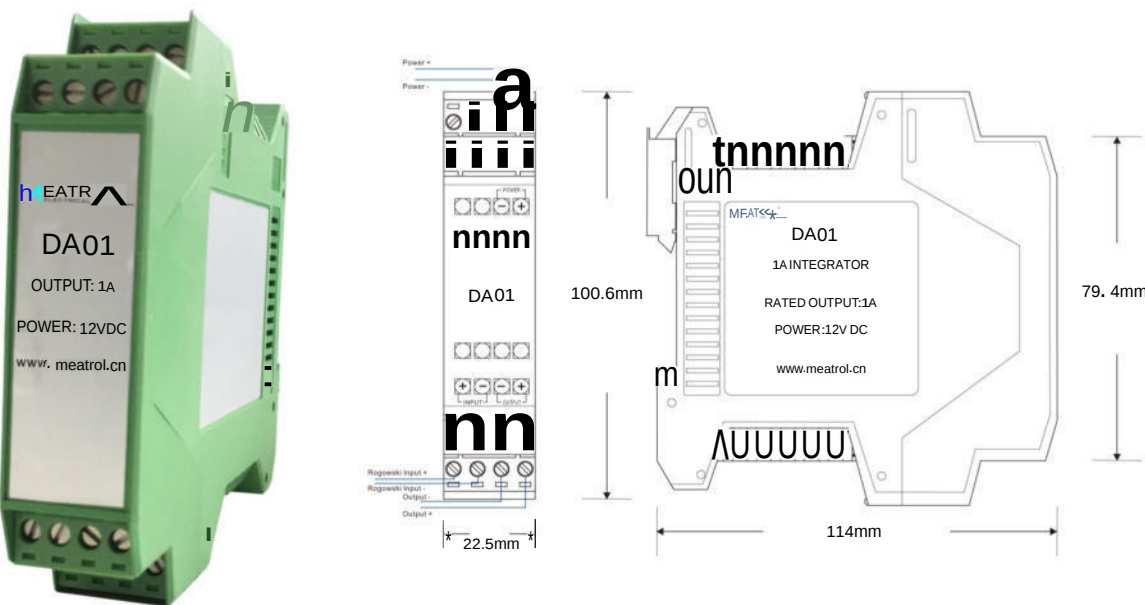
Y-FCT,ZRC,NRC,MRC

Applications

- Measuring devices, lab instrumentation
- Power monitoring & analysis
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement

Specification

Model	DTP.1
Rated output	5V AC rms
Maximum Output (overload)	10V ACrms
Output Ripple factor	1%
Response time	<1us
Power consumption	200mW
Bandwidth	10Hz to 10kHz
Power supply	12V or 24V
Rated Input	100A 600A 1000A 3000A 6000A
Read Accuracy	0.5% typical at 1%(>10A) to 200% of rated Current @25°C
Phase error	<0.5°
Linearity	±0.2% of reading(1% to 200% of range)
Minimum Current measurement	1A (Ripple 100mA)
Output on 0A (zero drift)	<5mV (rated outut >2.5V: zero drift<10mV)
Temperature drift	200ppm/°C
Weight	130g
Dimension	62.5*19*11mm
Operating temperature	-20°C to 70°C
Storage temperature	-30°C to 90°C
Relative humidity:	80% max.without condensation
Protection degree:	IP20
Other requirements,please contact us to OEM.	



DA01 integrator

DA01 is a DIN-RAIL 1A Output Rogowski coil integrator installation in distribution box,in a plastic 1 module DIN-RAIL enclosure, powered directly from the mains.

Feature

DA01 can be combined with any model and size of Y-FCT or NRC Rogowski coils.
The available values are: 0-1A AC.
On request the input value can be customized according to the application.
DA01 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.
Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- Compact DIN-RAIL construction
- High bandwidth for measurement 30 to 5kHz
- Output 1A rms

Related Products

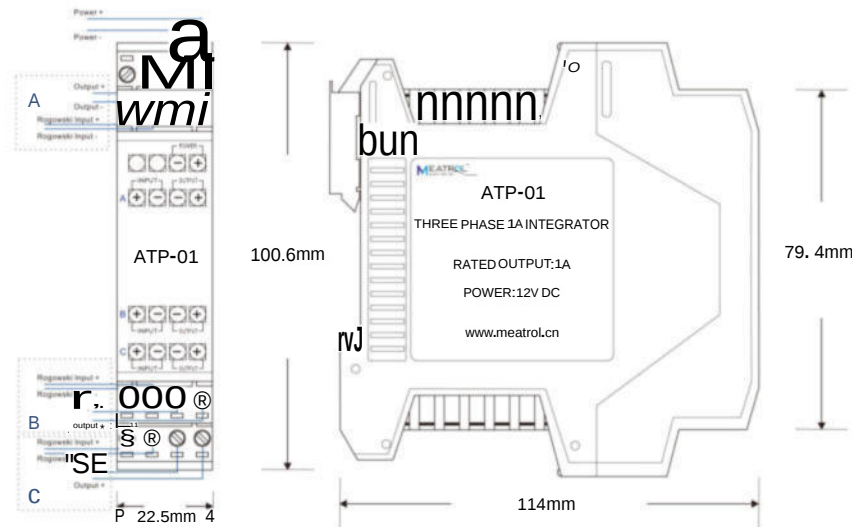
Y-FCT,ZRC,NRC,MRC

Applications

- Measuring devices, lab instrumentation
- Power monitoring & analysis
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement

Specification

Model	DA01
Rated output	1AAC rms
Maximum Output(overload)	1.5AAC rms
Rated ratio	100A 600A 1000A 3000A 6000A
Read Accuracy	0.5% typical at 1%(≤10A) to 110%of rated Current @ 25A
Phase error	≪0.5°
Linearity	± 0.2% of reading(10% to 120% of range)
Bandwidth	30Hz to 5kHz
Maximum Burden	0.5 Q
Measurement	Secondary CTs to measure output of integrator
Power consumption	5W
Output on 0A (zero drift)	ss0.01A
Temperature drift	200ppm/°C
Weight	175g
Dimension	114*100*22.5mm
Power supply	12V DC
Operating temperature	-20°Cto 50°C
Storage temperature	-30°Cto 90°C
Relative humidity	80% max.without condensation
Protection degree	IP20
Other requirements,please contact us to OEM.	



ATP01 integrator

ATP01 is a Three phase DIN–RAIL 1A Output Rogowski coil integrator installation in distribution box, in a plastic 1 module DIN–RAIL enclosure, powered directly from the mains.

Feature

ATP01 can be combined with any model and size of Y–FCT or NRC Rogowski coils.
The available values are: 0–1A AC.
On request the input value can be customized according to the application.
ATP01 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.
Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- Compact DIN–RAIL construction
- High bandwidth for measurement 30 to 5kHz
- Output 1A rms

Related Products

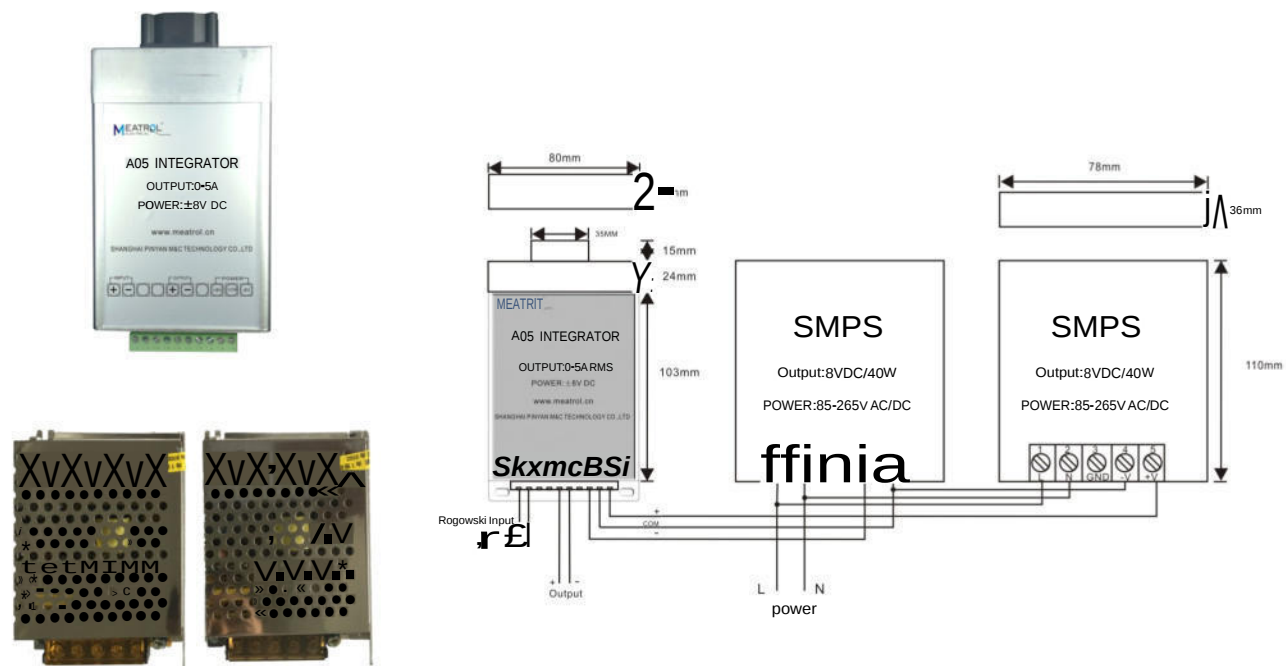
Y–FCT,ZRC,NRC,MRC

Applications

- Measuring devices, lab instrumentation
- Power monitoring & analysis
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement

Specification

Model	ATP-01
Rated output	1AAC rms
Maximum Output(overload)	1.5AAC rms
Rated ratio	100A 600A 1000A 3000A 6000A
Read Accuracy	0.5% typical at 1%(>>10A) to 110%of rated Current @ 25Λ
Phase error	±0.5°
Linearity	± 0.2% of reading(10% to 120% of range)
Bandwidth	30Hz to 5kHz
Maximum Burden	0.5 Q (each phase)
Measurement	Secondary CTs to measure output of integrator
Power consumption	10W
Output on OA (zero drift)	ss0.01A
Temperature drift	200ppm/°C
Weight	185g
Dimension	114*100*22.5mm
Power supply	12V DC
Operating temperature	–20Λ to 70Λ
Storage temperature	–30Λ to 9013
Relative humidity	80% max.without condensation
Protection degree	IP20
Other requirements,please contact us to OEM.	



A05 integrator

A05 is a 5A output Rogowski coil integrator, in a shield aluminium alloy enclosure, powered from 2pcs SMPS(switch module power supply).

Feature

A05 can be combined with any model and size of Y-FCT or NRC Rogowski coils.
The available values are: 0-5A AC.
On request the input value can be customized according to the application.
A05 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.
Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- High linearity 0.2%
- High bandwidth for measurement 30 to 5kHz
- Output 5A rms

Related Products

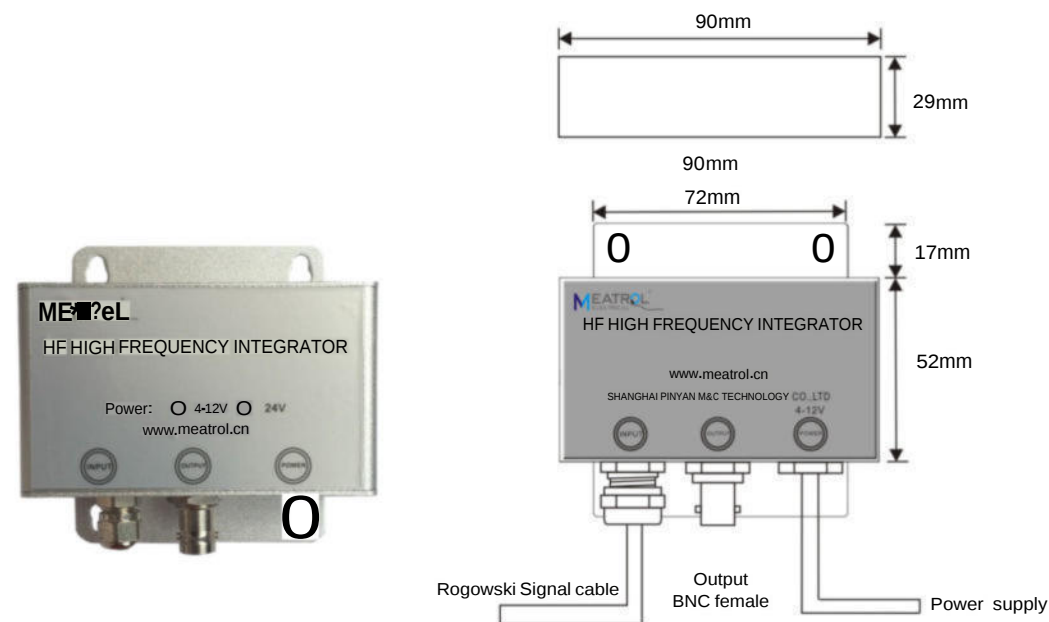
Y-FCT,ZRC,NRC.MRC

Applications

- Measuring devices, lab instrumentation
- Power monitoring & analysis
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement

Specification

Model	A05
Rated output	5AAC rms
Maximum Output(overload)	5AAC rms
Rated ratio	100A 600A 1000A 3000A 6000A
Read Accuracy	0.5% typical at 1%(>10A) to 100% of rated Current @25°C
Phase error	<0.5°
Linearity	±0.2% of reading(10% to 100% of range)
Bandwidth	30Hz to 5kHz(-3dB)
Maximum Burden	0.8Q
Measurement	Secondary CTs to measure output of integrator
Power consumption	80W
Output on 0A (zero drift)	<0.05A
Temperature drift	200ppm/°C
Weight	850g
Dimension	125*80*37mm
Power supply	85-265V AC/DC(Powered from 2pcs 85-265 to 8VDC 40W SMPS)
Operating temperature	-20°C to 70°C
Storage temperature	-30°C to 90°C
Relative humidity	80% max.without condensation
Protection degree	IP20
Other requirements,please contact us to OEM.	



HF High Frequency integrator

HF is a High Frequency Rogowski coil integrator, in a compact shield aluminium alloy enclosure, powered directly from the mains. It is providing the measurement of all kinds of waveforms like 3/5 M s, 8/20 u s, 10/350 u s, frequency from 100kHz to 1MHz, it also features in direct connection to oscilloscope

Feature

HF can be combined with any model and size of H-FCT Rogowski coils.

The available values are: 0-12V peak

On request the input value can be customized according to the application.

HF and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.

Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 2%
- Wide power supply arrange: 4-12VDC
- 1/5 M s, 8/20 M s, 10/350 u s waveform restore
- Up to 500kA lightning current measurement

Related Products

H-FCT

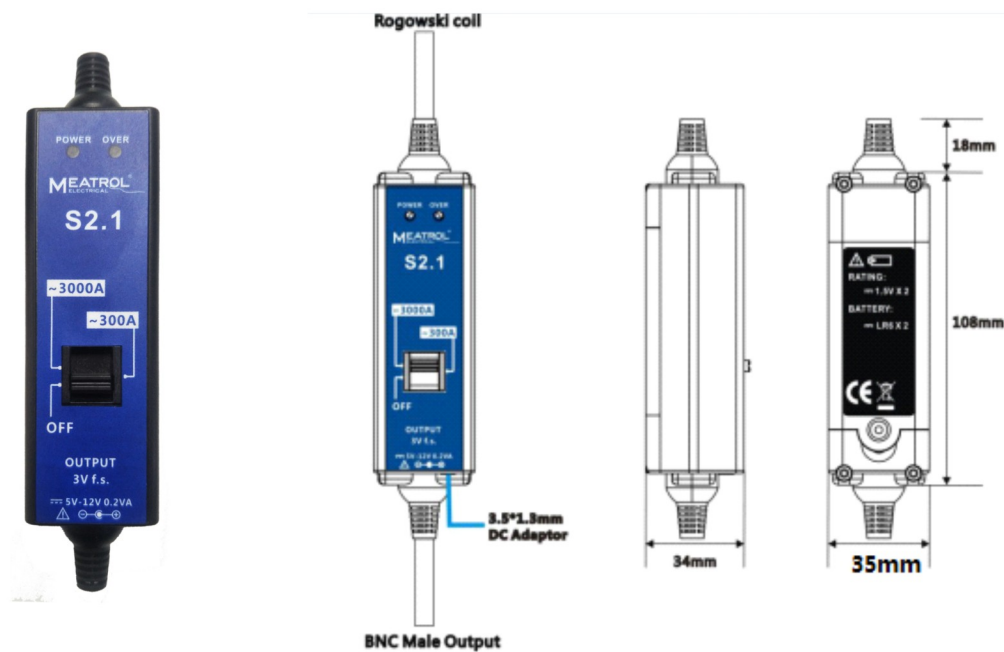
Applications

Measuring devices, lab instrumentation

- Lightning protection
- Lightning monitoring
- Lightning current measurement
- Pulse waveform analysis

Specification

Model	HF
Rated output	1V AC peak
Maximum Output(overload)	12V AC peak
Rated ratio	1kA/1V 10kA/1V 50kA/1V Minimum ratio:1000A/1V
Read Accuracy	2% typical at 10% to 1000% of rated Current @25℃
Phase error	≪0.5°
Linearity	±0.5% of reading(10% to 1000% of range)
Minimum Current measurement	10% of rated ratio
Typical waveform	1/5ps, 8/20ps, 10/350ps
Response time	Λ1us
Power consumption	300mW
Output on 0A (zero drift)	≲10mV
Temperature drift	200ppm/℃
Weight	160g
Dimension	86*90*29mm
Power supply	4-12V DC (included 85-265AC to 12V DC adaptor)
Operating temperature	-20℃ to 70℃
Storage temperature	-30℃ to 90℃
Relative humidity	80% max. without condensation
Protection degree	IP20
Terminal(Locks type)	Input: locked with H-FCT signal cable Output: BNC female terminal with 2m BNC male terminal cable Power: DC-DC terminal 5.5*2.0mm ² with 85-265VAC adaptor
Other requirements, please contact us to OEM.	



S2 integrator

S2 is a Single phase two rated current handheld Vac/dc Output Rogowski coil integrator connect to power analyzer,in a plastic mini enclosure, powered by battery or DC adaptor.

Feature

S2 can be combined with any model and size of NRC,MRC,Y-FCT Rogowski coils.
The available values are: 3Vac.
On request the input value can be customized according to the application.
S2 and Rogowski coil is a very flexible system, suitable for high power load analysis, impulsive current monitoring, DC ripple measurement, etc.
Due to its specific features, flexible Rogowski coil is an extremely comfortable solution for current measurement and can be used in a number of cases where traditional current transducer is not the adequate solution.

Advantage

- High read accuracy 0.5%
- Mini handheld
- Low power consumption
- Lower zero drift down to 5mV

Related Products

Y-FCT,NRC,MRC

Applications

- Measuring devices, lab instrumentation
- Power monitoring & analysis
 - Harmonics and transients monitoring
 - Welding machine control
 - High current measurement

Specification

Model	S2.1
Rated Input	300A/3000A(switchable)
Rated output	3V AC rms
Maximum Output(overload)	5V pp
Input Connection	Fixed with Rogowski coil cable(NRC-150)
Output terminal	0.5 meter BNC male terminal
Output Ripple factor	1%
Response time	≤1 us
Power consumption	0.2VA
Bandwidth	10Hz to 10kHz
Power supply	2pcs AA 1.5V battery(not included) 3.5*1.3mm DC 5V/2A adaptor(included)
Read Accuracy	0.5% typical at 1%(≥10A) to 200% of rated Current @25℃
Phase error	≤0.5°
Linearity	± 0.2% of reading(1% to 200% of range)
Minimum Current measurement	1A (Ripple 100mA)
Output on 0A (zero drift)	≤1mV (rated outut ≥2.5V: zero drift<5mV)
Temperature drift	200ppm/℃
Weight	300g
Dimension	144*43.5*34mm
Operating temperature	-20℃ to 70℃
Storage temperature	-30℃ to 90℃
Relative humidity:	80% max.without condensation
Protection degree:	IP20
Housing material:	PPE+10%PSGF
Other requirements,please contact us to OEM.	



ME440 Handheld Data Logger

Specification	
Model	ME435
Product component type	Handheld three phase rogowski power meter
Poles description	3PH4W 3PH3W 1PH2W (L-N); 1PH2W(L-L); 1PH3W(L-L-N)
Device application	Power analysis Data log
Support Extra sensor	4pcs BNC terminal 333mV CT 4pcs BNC terminal Rogowski coil
Display	3.5 inch TFT screen display
Sampling rate	8k samples per second
Harmonic	51th in the mean time
Mechanical characteristics	
Weight	850g (with Accessory 2kgs)
Dimension	L*W*D:21.5*13*6CM
Wire diameter for terminals	
Current input	BNC connector
Voltage input	Banana plug
DC power supply	DC 5.5*2.1 plug
Power Supply	
Power	2*2900mAh PANASONIC lithium battery Working time: 10 hours Charging time: 8 hours
	5V DC power supply(included adaptor)

Record		
Record interval	1s to 9999s (default 1min)	
Record format	csv	
Record capacity	16GB Memory	
	Store about 2.5K Bytes data each time	
	record 12 years (1min interval)	
Record data	"Current Harmonic"file	ITHD(%),IHD2(%),IHD3(%),.....IHD51%(Each phase)
	"Voltage Harmonic"file	UTHD(%),UHD2(%),UHD3(%),.....UHD51%(Each phase)
	"DataSheet" file	Voltage(V);UTHD(%);Current(A);ITHD(%); Frequency(Hz);Power Factor; Current Demand(A); Current Peak Demand(A)&Date; (Each phase and Average)
		Active Power(W) ;Reactive Power(Var);Apparent Power(Va) Active Energy(Wh);Reactive Energy(Varh);Apparent Energy(Vah) (Each phase and Summary) Total Active Power Deamnd(W) Total Active Power Peak Deamnd(W)&Date Total Reactive Power Deamnd(Var) Total Reactive Power Peak Deamnd(Var)&Date Total Apparent Power Deamnd(Va) Total Apparent Power Peak Deamnd(Va)&Date

Measurement accuracy		
Rated current (3 level selectable)	600A(0.5% from 6A to 720A)	
	3000A(0.5% from 10A to 3600A)	
	6000A(0.5% from 20A to 7200A)	
Rogwoski coil connect setting	600A(0.5A to 720A)	MRC-36
	3000A(0.5A to 3600A)	NRC-150 or Y-FCT-510
	6000A(0.5A to 7200A)	NRC-200 or Y-FCT-800
CTs connect setting	Primary setting:	from 1A to 999999A
	Secondary setting:	from 0.001mV to 707mV
Voltage	0.2% from 5 to 600V	
Power factor	± 0.005	
Active/Apparent Power	IEC62053-22 Class 0.5	
Reactive power	IEC62053-21 Class 2	
Frequency	0.01% from 45 to 65Hz	
Active energy	IEC62053-22 Class 0.5s	
Reactive energy	IEC62053-21 Class 2	



ME437 ME631 ME531 Three-phase Power Meter

Specification			
Model	ME437-SD	ME631-SD	ME531
Product component type	Multifunction power meter		
Poles description	3PH4W 3PH3W 1PH2W (L-N); 1PH2W(L-L);1PH3W(L-L-N)		
Device application	Power analysis Energy meter		
Input type	External CT(333mV only) And External Rogowski coil		
Display	3.5 inch TFT screen display	2.0 inch TFT screen display	None LCD display
Sampling rate	8k samples per second		
Mounting mode	Panel mounting	DIN rail	
Harmonic	52th Max		
Display characteristics			
Feature	320*480 dots	39mm x 32mm 220 x 170 dots	N/A
Mechanical characteristics			
Weight	350g	212g	125g
Dimension	L*W*D:96*96*99mm	L*W*D:76*95*71mm	L*W*D:122*87*23mm
Storage	1GB SD card(Max 4GB)(save intervals 1mins default)		None

Measurement accuracy			
Model	ME437–SD and ME531		ME631–SD
Rated current	100A(0.5% from 10A to 120A) 600A(0.5% from 10A to 720A) 1000A(0.5% from 10A to 1200A) 3000A(0.5% from 30A to 3600A) 6000A(0.5% from 60A to 7200A)		Only choice one point,accept OEM
Rogowski coil specification	100A	MRC–16	85mV/kA@50H ± 0.5%
	600A	MRC–36	50mV/kA@50H ± 0.5%
	1000A	Y–FCT–200 or Y–FCT–350 or NRC–100	
	3000A	NRC–150 or Y–FCT–510	
	6000A	NRC–200 or Y–FCT–800	
Voltage	0.2% from 100V to 500V(L–L and L–N)		
Power factor	± 0.005 from 10% to 120%		
Active/Apparent Power	IEC62053–22 Class 0.5		
Reactive power	IEC62053–21 Class 2		
Frequency	0.01% from 45 to 65Hz		
Active energy	IEC62053–22 Class 0.5s		
Reactive energy	IEC62053–21 Class 2		
Measurement arrange			
Measured voltage	100V to 500V AC		
Frequency range	50/60Hz		
Input–current characteristics			
Primary current range	Adjustable from 0.1A to 9999A		
Measurement input range	1/225mV–333mV		
Permissible overload	600mV for 10s/hours		

FUNCTION LIST				● YES ○ OPTION		BLANK: NO			
FUNCTION			PARAMETER	ME440	ME435	ME531	ME631	ME437	
Specific	5 Rated Current Selectable	100A/600A/1kA/3kA/6kA	100A connect to MRC-24 50mV/kA@50Hz 600A connect to MRC-36 50mV/kA@50Hz 1kA connect to NRC-100 85mV/kA@50Hz 3kA connect to NRC-150 85mV/kA@50Hz 6kA connect to NRC-200 50mV/kA@50Hz						
					●		●		●
	3 Rated Current Selectable	600A//3kA/6kA	600A connect to MRC-36 50mV/kA@50Hz 3kA connect to NRC-150 85mV/kA@50Hz 6kA connect to NRC-200 50mV/kA@50Hz	●					
	Display	TFT color display		●	●		●	●	
				●	●				
	Install Style	Handheld Type Panel Type DIN-RAIL Type		●	●				
									●
	Power supply	2*2900mAh PANASONIC lithium battery 4*AA battery 85-265VAC/DC 24V DC 5VDC adaptor		●					
				●					
					●	●	●		
					●				
			●	●					
Full parameter record	8GB memory	USB DISK download	●						
	SD Card	1GB		●		○	○		
Commu-nication	Communication protocol	RJ45-Modbus-TCP	●		●	●	●		
		RS485-Modbus-RTU			●	●	●		
Measu- re-ment	Real-Time Parameter	Voltage	Ua Ub Uc,avg	●	●	●	●	●	
		PE-N Voltage	Ue	●					
		Current	Ia Ib Ic,avg	●	●	●	●	●	
		Neutral Current	In	●					
		Active Power	Pa,Pb,Pc,Psum	●	●	●	●	●	
		Reactive Power	Qa,Qb,Qc,Qsum	●	●	●	●	●	
		Apparent Power	Sa,Sb,Sc,Ssum	●	●	●	●	●	
		Power Factor	PFa,PFb,PFc,avg	●	●	●	●	●	
		Frequency	Fa,Fb,Fc,avg	●	●	●	●	●	
	Electric energy measuring	Active Energy	EPa,EPb,EPc,EPsum	●	●	●	●	●	
		Reactive Energy	EQa,EQb,EQc,EQsum	●	●	●	●	●	
		Apparent Energy	ESa,ESb,ESc,ESsum	●	●	●	●	●	
	Pulse output							●	
	Demand	Demand(some time ago)	Current Ia Ib Ic,avg Active/Reactive/Apparent Power ABCPsum,Qsum,Ssum	●	●		●	●	
				●	●		●	●	
				●	●		●	●	

Power Quality	Harmonic	Current harmonic value	ITHDa, ITHDb,ITHDc,	●	●	●	●	●
		Current harmonic percentage	ITHDa(%), ITHDb(%), ITHDc(%)	●	●	●	●	●
		Voltage harmonic value	UTHDa, UTHDb, UTHDc	●	●	●	●	●
		Voltage harmonic percentage	UTHDa(%), UTHDb(%), UTHDc(%)	●	●	●	●	●
	Harmonic number display	52 times meanwhile (percentage)		●				
		5 times meanwhile (percentage)			●			
		3 times meanwhile (percentage)					●	●
	Time-sharing Measurement	3 Tariff	Controlled by modbus				●	
	Current Unbalance	Each phase,Most Unbalance phase	Ubl(Ia,Ib,Ic,Iwst)	●	●			
	Voltage Unbalance	Each phase,Most Unbalance phase	Ubl(Ua,Ub,Uc,Uwst)	●	●			
	Line Voltage		Uab Ubc Uac	●	●		●	●
	Voltage Angle		Uab Ubc Uac	●	●			●
	Current Angle		Uab Ubc Uac	●	●			●
	Displacement Power Factor	Each phase,total	DPFa,DPFb,DPFc,TOT	●	●			
	Instantaneous Maximum RMS	Current	Ia Ib Ic,avg	●	●			
		Voltage	Ua Ub Uc,avg	●	●			
		Power	Pa,Pb,Pc,Qa,Qb,Qc,Sa,Sb,Sc,Psum,Qsum,Ssum	●	●			
	Instantaneous Minimum RMS	Current	Ia Ib Ic,avg	●	●			
		Voltage	Ua Ub Uc,avg	●	●			
		Power	Pa,Pb,Pc,Qa,Qb,Qc,Sa,Sb,Sc,Psum,Qsum,Ssum	●	●			

Coil:

Coil Model	Coil length (mm)	Output ratio and tolerance	Signal cable length
MRC	Code:16(Typical rated 100A) Code:24(Typical rated 300A) Code:36(Typical rated 600A)	Code:60 60mV/kA@50Hz ± 5% Code:50 50mV/kA@50Hz ± 0.5%	Code:-2m Code:-5m Code:-10m Code:-20m
Y-FCT	Code:200(Typical rated 500A) Code:350(Typical rated 1000A) Code:510(Typical rated 3kA) Code:800(Typical rated 6kA)	Code:110 110mV/kA@50Hz ± 5% Code:100 100mV/kA@50Hz ± 0.5% Code:85 85mV/kA@50Hz ± 0.5% Code:50 50mV/kA@50Hz ± 0.5%	Code:-2m Code:-5m Code:-10m Code:-20m
NRC	Code:100(Typical rated 1kA) Code:150(Typical rated 3kA) Code:200(Typical rated 6kA)	Code:110 110mV/kA@50Hz ± 5% Code:100 100mV/kA@50Hz ± 0.5% Code:85 85mV/kA@50Hz ± 0.5% Code:50 50mV/kA@50Hz ± 0.5%	Code:-2m Code:-5m Code:-10m Code:-20m
Other requirement could be OEM			

Final Code=Coil model+Coil length+Output ratio tolerance+Signal cable length

For example:

Y-FCT-350-100-2m is Y shape connector,coil length 350mm,output 100mV/kA@50Hz 0.5% tolerance, signal cable length is 2meters.

Integrator:

Integrator	Output form	Output value	Rated current	Coil Ratio	Power supply
Code:D1 (DIN-RAIL integrator)	Code: .1 (AC voltage output) Code: .2 (DC voltage output)	Code: -333 (333mV) Code: -1(1V) Code: -3(3V) Code: -5(5V)	Code: -500A Code: -1kA Code: -3kA Code: -6kA Code: -10kA	Code: -85mV Code: -50mV Code: -100mV	Code: -12 (12V DC) Code: -24 (24V DC)
	Code: .3 (4-20mA output)	N/A			Code: -12(6-12V DC) Code: -24(24V DC)
Code:S9 (mini integrator)	Code: .1 (AC voltage output) Code: .2 (DC voltage output)	Code: -333 (333mV) Code: -1(1V) Code: -3(3V)			Code: -12(6-12V DC) Code: -24(24V DC)
	Code: .4 (4-20mA output)	N/A(waterproof)			
Code:DTP (Three phase DIN-RAIL 333mV output Integrator)	Code: .1 (AC voltage output)	Code: -333 (333mV) Code: -1(1V) Code: -3(3V)			Code: -12(12V DC) Code: -24(24V DC)
Code:ATP (three phase 1A integrator)	N/A(0-1A)	N/A			Code: -12(12V DC) Code: -24(24V DC)
Code:A05 (5A output integrator)	N/A(0-5A)	N/A			N/A(4-12V DC)
Code:S1 (high accuracy integrator)	Code: .1 (AC voltage output) Code: .2 (DC voltage output) Code: .3 (4-20mA output)	Code: -333 (333mV) Code: -1(1V) Code: -3(3V) Code: -10(10V)			Code: -12(4-12V DC) Code: -24(24V DC)
Code:HF (high frequency integrator)	N/A(0-10VAC peak)	N/A	Code: -1kA (1kA/1V) Code: -10kA (10kA/1V)	N/A	N/A(4-12V DC)
Other requirement could be OEM					

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

For example:

D1.1-1-500A-85mV-12 is D1 integrator,AC voltage output,500A rated,output 1V,calibrate with 85mV/kA @50Hz coils,power supply 12V DC

A01-1kA-85mV is A01 integrator,rated 1kA,output 1A,calibrate with 85mV/kA@50Hz,power supply 85-265V AC DC