



JAGUAR 6300S

High Performance Digital Power Quality Meter
The ideal choice for the electrical power quality measurement



PROLOGUE



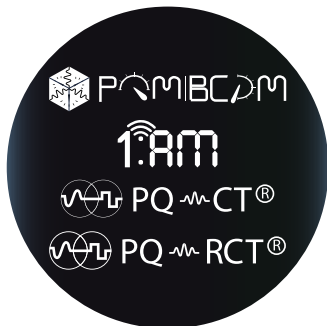
JAGUAR IoT INTRODUCTION

The premium brand JAGUAR IoT is made for power quality and energy monitoring products for the distribution, control & management of electrical energy and other dynamic processes. JAGUAR IoT products specialize in advanced research, design and production of high performance Digital power quality meters, Current Sensor Smart Meter, Flexible Rogowski coil CTs, Split core CTs, Cloud web server, Network communication modules, Multi-family billing solutions.



JAGUAR IoT VISION

JAGUAR IoT's vision is to provide sustainable, dependable and efficient energy usage by making energy management more convenient and intelligent for whole world. JAGUAR IoT's various power quality & metering devices are designed for supporting its versatile options and product range allowing users to manage and monitor the distribution and usage of energy. JAGUAR IoT products are easily integrated into new or existing energy monitoring systems, automation facilities and building control systems for intelligent, cost-effective energy systems that are supported by the expert technical staff.



JAGUAR IoT PRODUCT LINE

JAGUAR IoT has an extensive product range that includes single and three phase high performance Digital power quality meters, Multi-channel meters, a variety of Split core AC/DC CT, UL listed Power quality CTs, Rogowski coil CTs, Input/Output and Communication modules, DC Power meters, Current Sensor Smart Meter, Hall effect DC current sensors and Data logging software.

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SMART INNOVATIVE TECHNOLOGY

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HIGH PERFORMANCE DIGITAL POWER QUALITY METER

The JAGUAR 6300S is a high accuracy digital power quality and energy meter developed by J&D Electronics, it makes it possible for enterprises to monitor electric power energy and to control power distribution system



200ms Refresh



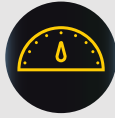
500 Parameters



Web Server



Ethernet/ RS-485



0.2 Class



8 MB Memory

INTRODUCTION

JAGUAR 6300S

1. The importance of Power Quality in Power Distribution Systems

In power distribution systems such as metering distribution feeders, transformers, generators, capacitor banks and motors and switchgear, There are many problems of power quality such as Dip[Sag] / Swell, caused by load conditions, power facilities and power supply. Power quality monitoring and analysis help supervisor to check the cause, and to take measures.

2. High Accuracy

It is clear that enterprise energy management system plays an important role for effective energy use and preventive maintenance to prepare CO2 emission management in building, plant and data center. Above all, measuring accuracy is the most important factor for reliability of the energy management. JAGUAR 6300S can play a big role in this kind of situation. JAGUAR 6300S makes 0.2% high accuracy measurements for current and voltage, and complying with IEC61557-12 class 0.2 for power and energy.

3. True RMS

With JAGUAR 6300S, you can measure highly nonlinear loads with perfectly high accuracy. 128 sampling /cycle true-rms measurement can be fulfilled by a high-level sampling technique.

4. Certified by IEC61000-4-30 Class S, Power Quality

With JAGUAR 6300S, you can get a lots of power quality like Dip[Sag], Swell, Harmonics[up to 63rd], Crest factor, K factor, and Unbalance. So many problems of power facilities and energy management can be determined and analyzed accurately by JAGUAR 6300S. The measuring method of power quality information complying with IEC61000-4-30 Class S.

5 Statistical Data

Statistical information like maximum, minimum, and average of voltage, current, and power within gathering interval on communication can be obtained with JAGUAR 6300S. The information which measurement parameters instantaneously fluctuated is included, and this makes it possible to precisely analyze the power quality trend of voltage, current, and power.

6 Safety and Reliability by CE/UL

JAGUAR 6300S is certified by CE [EN61326-1, EN61326-2-1] and UL[UL61010-1, 2nd edition]..

7. Add-on I/O Modules

You can add modules to the rear side of meter so easily, and this will help you to customize extension of function to meet so many applications. JAGUAR 6300S has add-on modules like DIO, AIDIO, Ethernet, EOCR, module. You can choose up to 3 modules. **Add-on Module for Webserver would be available in near future.**

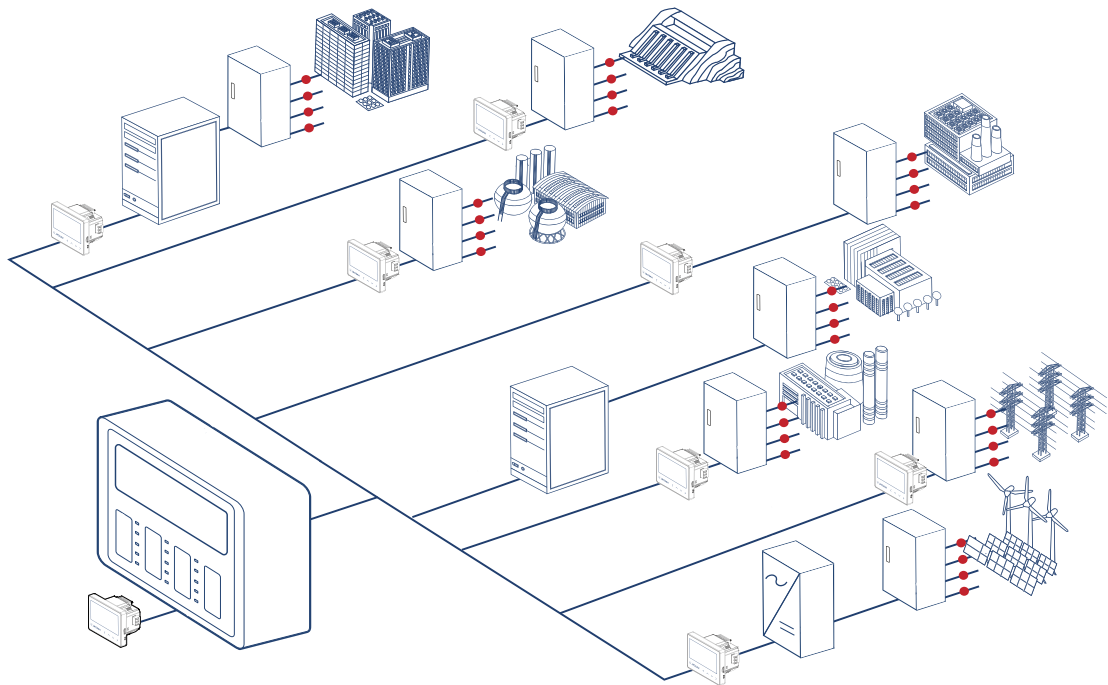
JAGUAR 6300S

APPLICATIONS

JAGUAR 6300S provides power quality information which enables management of energy use, power facility operation and high efficiency device analysis. This presents an energy management supervisor the analytic criterion on both energy use and power quality, which makes it possible to establish appropriate preventive or post measures.

Also it can be used as submeters for high performance monitoring and analysis, system integration & special applications

- 1 Power Energy Monitoring & Analysis
- 2 Metering of Distribution Feeders, Generators, Capacitor Banks and Motors
- 3 Commercial, Industrial Facilities
- 4 Medium and Low voltage system

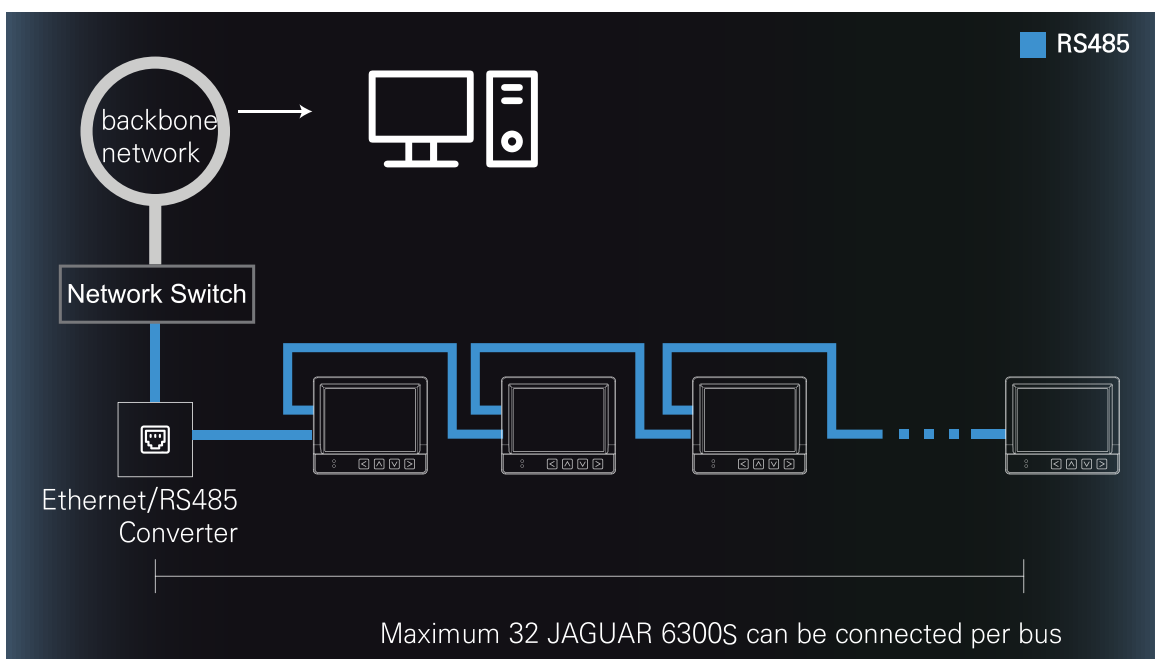
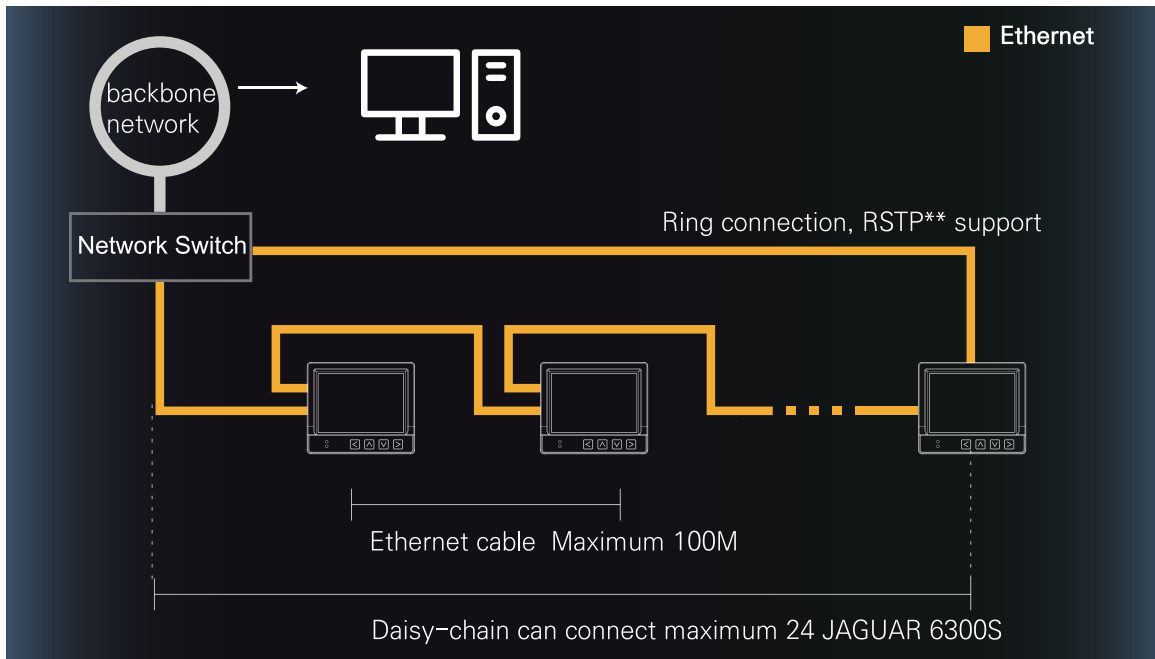


COMMUNICATION DIAGRAM

JAGUAR 6300 has two ethernet ports[bridge] which enables network connection just by direct STP/SFTP* cabling between two meters without hubs. JAGUAR 6300S has a separate RS485 port.

* STP[Shielded Twisted Pair] SFTP[Screened Foiled Twisted Pair]

** RSTP[Rapid Spanning Tree Protocol]



FEATURES

JAGUAR 6300S provides an accurate measurement of 0.2% for voltage and current.

Active power/energy conforms to IEC61557-12 Class 0.2S, and Reactive power/energy does to IEC61557-12 Class 0.5S.

Moreover, it provides various information essential for electric quality management of switchgear such as Sag, Swell, Crest Factor, K factor, and harmonics(maximum 63rd).

MEASUREMENT		
Display	Real time data LCD display	
General	Sampling / Cycle	128
	Frequency	50/60Hz
	True RMS measurement	
	Voltage, Current, Power, Power Factor	
	Frequency	45 ~ 65Hz
	Demand, Peak Demand	
	Maximum, Minimum	
Power Energy	Imported Energy, Exported Energy	
	Net Power Energy (Imported Energy-Exported Energy)	IEC62053-22 Class 0.2S IEC62053-24 Class 0.5S
	Total Power Energy (Imported Energy+Exported Energy)	
Power Quality	Harmonic	Up to 63rd harmonic
	Voltage/Current THD	
	Crest Factor, K Factor	
	Sag, Swell	IEC61000-4-30 Class S
Event	Sag, Swell event	1-cycle RMS Measuring
	The number of event log	Up to 512
	The number of event waveform storage	Up to 100
MODULES COMBINE		
	Module installation at the back (Optional)	Max. 3 Modules (DIO Module, AIDIO Module, Ethernet Module)
COMMUNICATION		
	RS-485(9600 ~ 38400, MODBUS RTU Protocol)	
	Ethernet(10/100 Base-T, Full Duplex, Ethernet Switching, RSTP, MODBUS TCP Protocol)	
GENERAL		
	UL mark	
	CE mark	
	Power	AC 85 - 265V (50/60Hz) DC 100 - 300V

SPECIFICATION

Measurement Voltage Input		
Measurement Range (Accuracy guaranteed)	60 ~ 400Vac	
Minimum Measurement	10Vac	
Frequency Range	45 ~ 65Hz	
Burden	0.08VA/Phase @ 400V	
Voltage Withstand	2,000Vac RMS, 60Hz per minute	
Impedance	2M Ω /Phase	
Wiring	3P4W, 3P3W, 1P2W	
Current Measurement Sensor Input		
Rating	333mV, 50mA, 100mA, 1A, 5A	
Power		
Power	AC 85 ~ 265V (50/60Hz)	
	DC 100 ~ 300V	
	JAGUAR 6300S	1.5W
	DIO Module	0.4W
	AIDIO Module	0.6W
Ethernet Module	2.0W	
General		
Weight	JAGUAR 6300S	450g
	DIO Module	80g
	AIDIO Module	80g
	Ethernet Module	90g
Operating Temperature	-20 ~ +70°C	
Storage Temperature	-25 ~ +80°C	
Operating Humidity	5 ~ 90%(No Condensation state)	
Module Channel		
Channel	Specification	
Digital Input	Wet contact	Rating : 12 ~ 130Vdc
	Mechanical Relay	Rating : 5A 250Vac / 5A 30Vdc
Digital Output	Output Type	Latch mode
		Pulse mode : Pulse width 300ms
Analog Input	DC Current	4~20mA

FUNCTION LIST

CATEGORY	ITEM	PARAMETERS	REMARK	
Metering	Real Time Metering	Phase Voltage	V1, V2, V3, Vlnavg	MAX : 400V
		Line Voltage	V12, V23, V31, Vllavg	MAX : 690V
		Current	I1, I2, I3, Iavg	
		Power	P1, P2, P3, Psum	
		Reactive Power	Q1, Q2, Q3, Qsum	
		Apparent Power	S1, S2, S3, Ssum	
		Power Factor	PF1, PF2, PF3, PF	
		Frequency	F	
		Load Features	Load Features	
	Energy & Demand	Active Energy	Ep_imp, Ep_exp, Ep_total, Ep_net	
		Reactive Energy	Eq_imp, Eq_exp, Eq_total, Eq_net	
		Apparent power	Es_imp, Es_exp, Es_total, Es_net	
		Demand	Dmd_P1, Dmd_P2, Dmd_P3, Dmd_P Dmd_Q1, Dmd_Q2, Dmd_Q3, Dmd_Q Dmd_S1, Dmd_S2, Dmd_S3, Dmd_S Dmd_I1, Dmd_I2, Dmd_I3, Dmd_I	
	Monitoring	Waveform capture	Voltage and Current Waveform	Sag/Dip, Swell, Interruption
Power quality		Voltage unbalance factor	U_unbl	
		Current unbalance factor	I_unbl	
		Voltage THD	THD_V1, THD_V2, THD_V3	
		Current THD	THD_I1, THD_I2, THD_I3	
		Individual Harmonics	harmonics 2nd to 63rd	
		Voltage Crest Factor	U_crest	
		Current Crest Factor	I_crest	
		Voltage K Factor	U_kfact	
Current K Factor		I_kfact		
Statistics	Max with Time Stamp Min with Time Stamp			
Others	Power Quality Event Logging	Sag/Dip, Swell, Interruption	Voltage	
	Data Logging	Data Logging with Time Stamp	V1, V2, V3, I1, I2, I3, Psum, Qsum, Ssum, PF Ep_imp, Ep_Exp, Eq_imp, Eq_exp, Es_imp, Es_Exp, Dmd_P, Dmd_Q, Dmd_S, THD_V1, THD_V2, THD_V3, V_unbl, I_unbl	
	Onboard Memory size	Memory	8MB	
	Communication	RS485 Port, Half Duplex, Galvanic Isolated	Modbus-RTU Protocol	
	Time	Real Time Clock	Year, Month, Date, Hour, Minute, Second	

OPTION MODULES

JAGUAR 6300S option modules can be equipped with a total of three modules, one for each type

MODEL	CHANNEL		SPECIFICATION
DIO Module	Digital Inputs	6 Channel	12 ~ 130Vdc
	Digital Outputs	2 Channel	5A 250Vac / 5A 30Vdc
AIDIO Module	Digital Inputs	4 Channel	12 ~ 130Vdc
	Digital Outputs	2 Channel	5A 250Vac / 5A 30Vdc
	Analog Inputs	2 Channel	4 ~ 20mA DC
Ethernet Module	Ethernet Communication	1 Channel	MODBUS-TCP 10/100 Base-T, Full Duplex Ethernet Switching, RSTP Star, Daisy Chain, Ring Connecting
EOCR Module (Coming in 2019)	EOCR		Over Current(110~125%) Phase Open Lock (Over 200%, 0.5~10sec) Stall (Over 150%, 0.5~10sec)
	ZCT	1 Channel	200mA / 1.5mA

COMMUNICATIONS

Basically it supports for RS-485 communication, and if you need a high-speed transmission of large amounts of data, you can add the Ethernet Module.

TYPE	PORT	
RS-485	1 Port	MODBUS RTU Protocol 9,600 ~ 38,400bps
Ethernet	2 Port	MODBUS TCP Protocol 10/100 BASE-T(Full Duplex) Ethernet Switching, RSTP Star, Dasy Chain, Ring Connecting

ACCURACY

JAGUAR 6300S Digital Power Quality Meter			
PARAMETER		Display Range	Accuracy
Voltage	Phase	0.0 ~ 9,999V, kV	±0.2%
	Line	0.0 ~ 9,999V, kV	±0.2%
Current	Phase	0.0 ~ 9,999A, kA	±0.2%
Power	Apparent	0.0 ~ 9,999kVA, MVA	Based on the Active/Reactive IEC 62053-22 Class 0.2S
	Active	0.0 ~ 9,999kW, MW	
	Reactive	0.0 ~ 9,999kvar, Mvar	
Energy	Apparent	0.0 ~ 99,999,999.9 kVAh	Based on the Active/Reactive IEC 62053-22 Class 0.2S
	Active	0.0 ~ 999,99,999.9 kWh	
	Reactive	0.0 ~ 999,999,99.9 kvarh	
Demand	Current	0.0 ~ 9,999A, kA	±0.2%
	Active	0.0 ~ 9,999kW, MW	IEC 62053-22 Class 0.2S
	Reactive	0.0 ~ 9,999kvar, Mvar	IEC 62053-24 Class 0.5S
Frequency		45 ~ 65Hz	±0.2%
Power Factor		-100% ~ +100%	±0.2%
Phase		0.0 ~ 359.9°	±0.5°
THD	Voltage	0.0 ~ 999.9%	±1.0%
	Current	0.0 ~ 999.9%	±1.0%
Harmonic		Communication data	63rd
Crest Factor		0.0 ~ 9.999	±1.0%
K Factor		Communication data	±1.0%

JAGUAR 6300S Module		
PARAMETER	Display Range	Accuracy
Analog Input	0.0 ~ 20.00mA	±0.5%

Power Quality			
PARAMETER	Specification	Condition	Accuracy
Sag/Swell/Interruption	IEC61000-4-30 Class S	1 Cycle RMS	±0.5%
Voltage/Current THD	IEC61000-4-7	Max 40th Harmonics	±1.0%

STANDARD COMPLIANCE

Accuracy	
IEC62053-22 Class 0.2S	Static meters for active energy
IEC62053-24 Class 0.5S	Static meters for reactive energy at fundamental frequency
Power Quality	
IEC61000-4-30	Power quality measurement methods(Voltage Sag/Swell)
Safety	
EMC	
IEC61000-4-2	Electrostatic Discharge Immunity
IEC61000-4-3	Radiated, radio-frequency, Electromagnetic field Immunity
IEC61000-4-4	Electrical Fast Transient / Burst Immunity
IEC61000-4-5	Surge immunity test
IEC61000-4-6	Immunity to conducted disturbances, Induced by radio-frequency fields
Certification	
IEC, CE, UL	

ORDERING INFORMATION

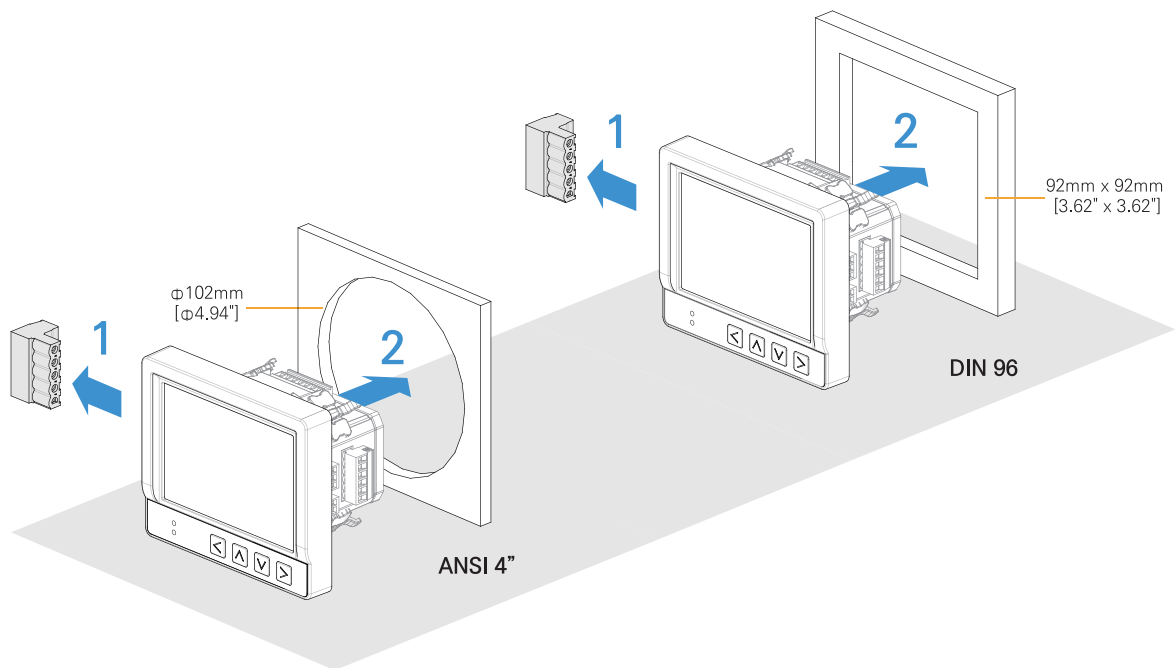
ITEMS	MODEL	DESCRIPTION
Digital Power Quality Meter	JAGUAR 6300S	Voltage, Current, Power Measurement Sag/Swell/Interruption Harmonic(Max 63rd) Crest Factor, K Factor
Module	DIO Module	Digital Input 6channel, Digital Output 2channel
	AIDIO Module	Digital Input 4channel, Digital Output 2channel, Analog Input 2channel
	Ethernet Module	Ethernet Communication 1 Channel
	EOCR Module (coming in 2019)	Over Current, Phase Open, Lock, Stall ZCT 1Channel
Warranty	2 Years	

INSTALLATION

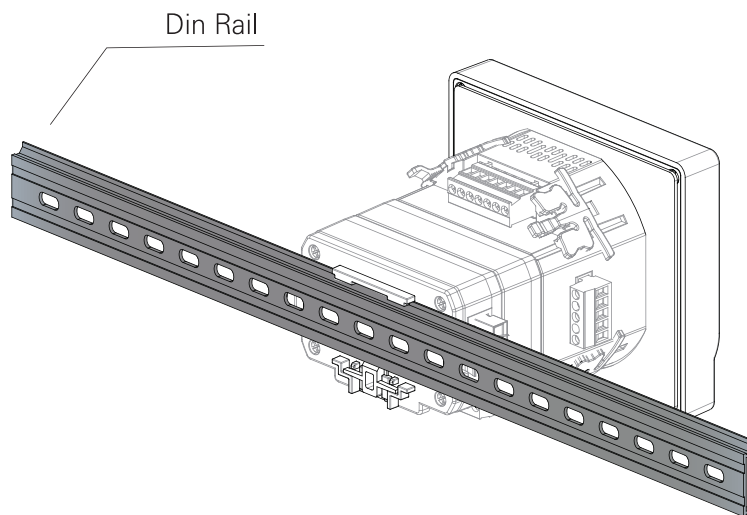
STEP 1

Panel Mounting

The device can be mounted on Panel (ANSI 4" or DIN 96) by attaching a bracket (clip) from backward.



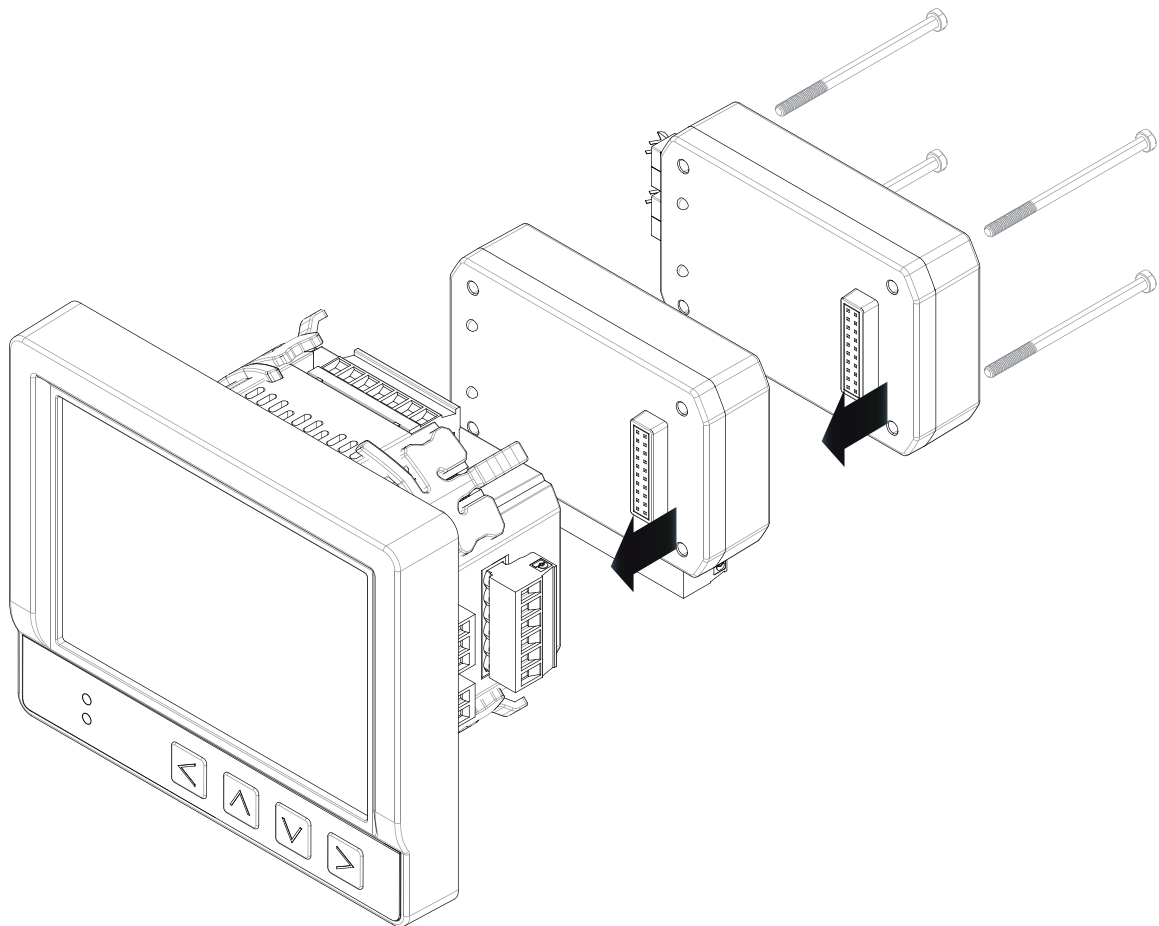
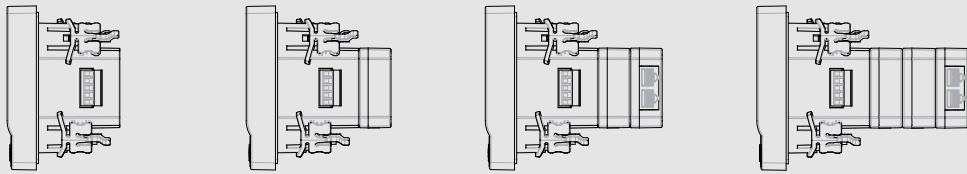
Din Rail Mounting



INSTALLATION

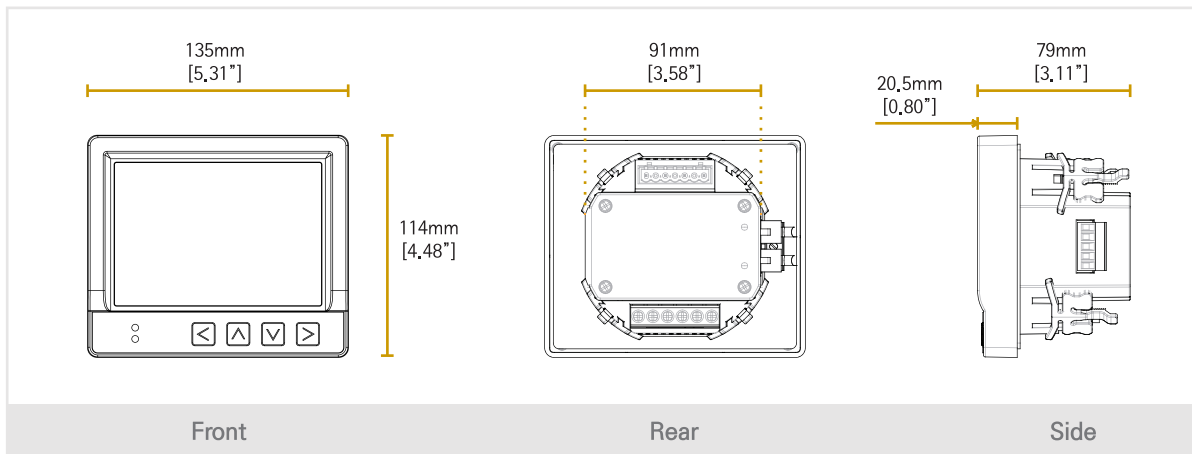
STEP 2

Add-on Module

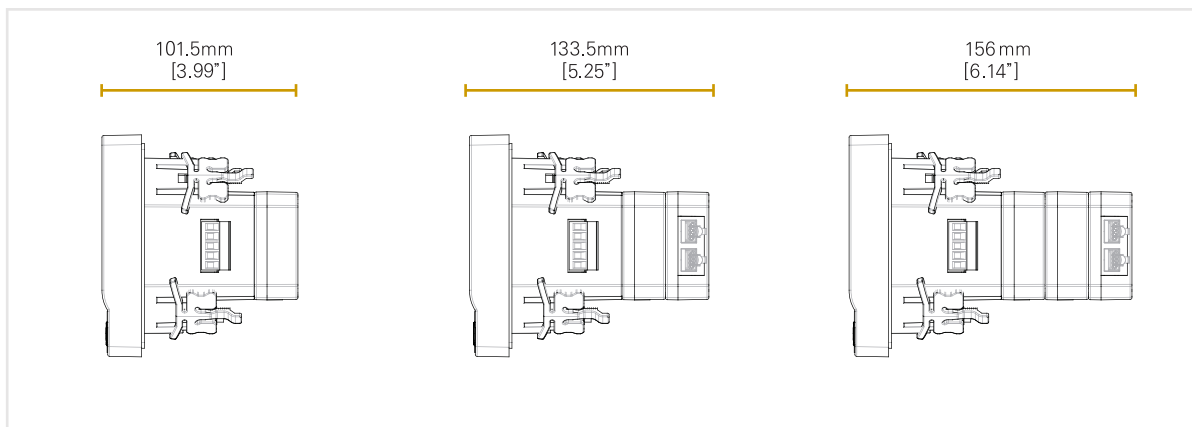


DIMENSION

JAGUAR 6300S Digital Power Quality Meter

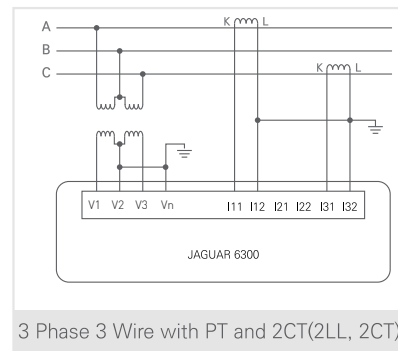
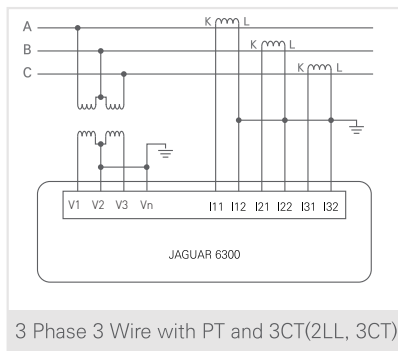
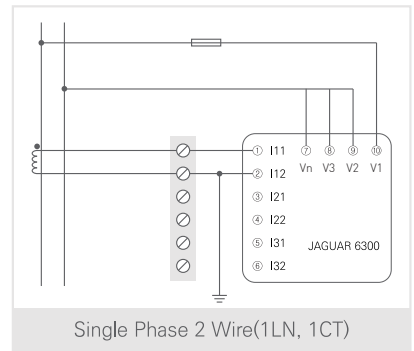
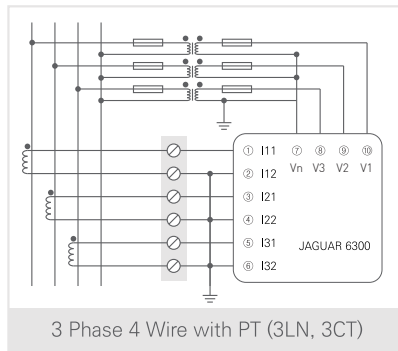
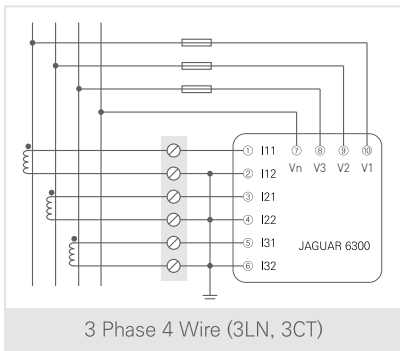


JAGUAR 6300S ADD-ON MODULE

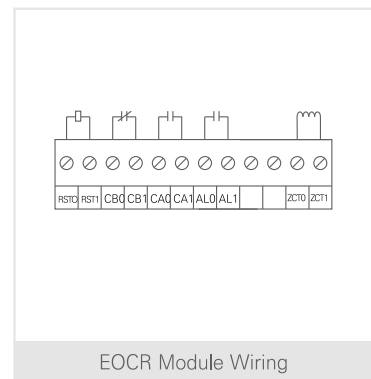
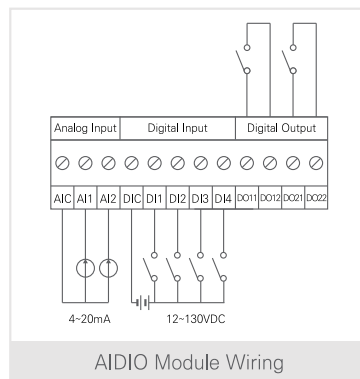
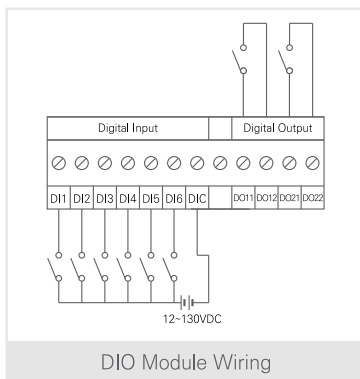


WIRING DIAGRAM

Main body Wiring



Add-on Module Wiring



Cost-effective solution

High accuracy and low phase shift

Reinforced isolation

REMOTE CT ACCESSORY



Heterogeneous field

Very low positioning error

Compact case

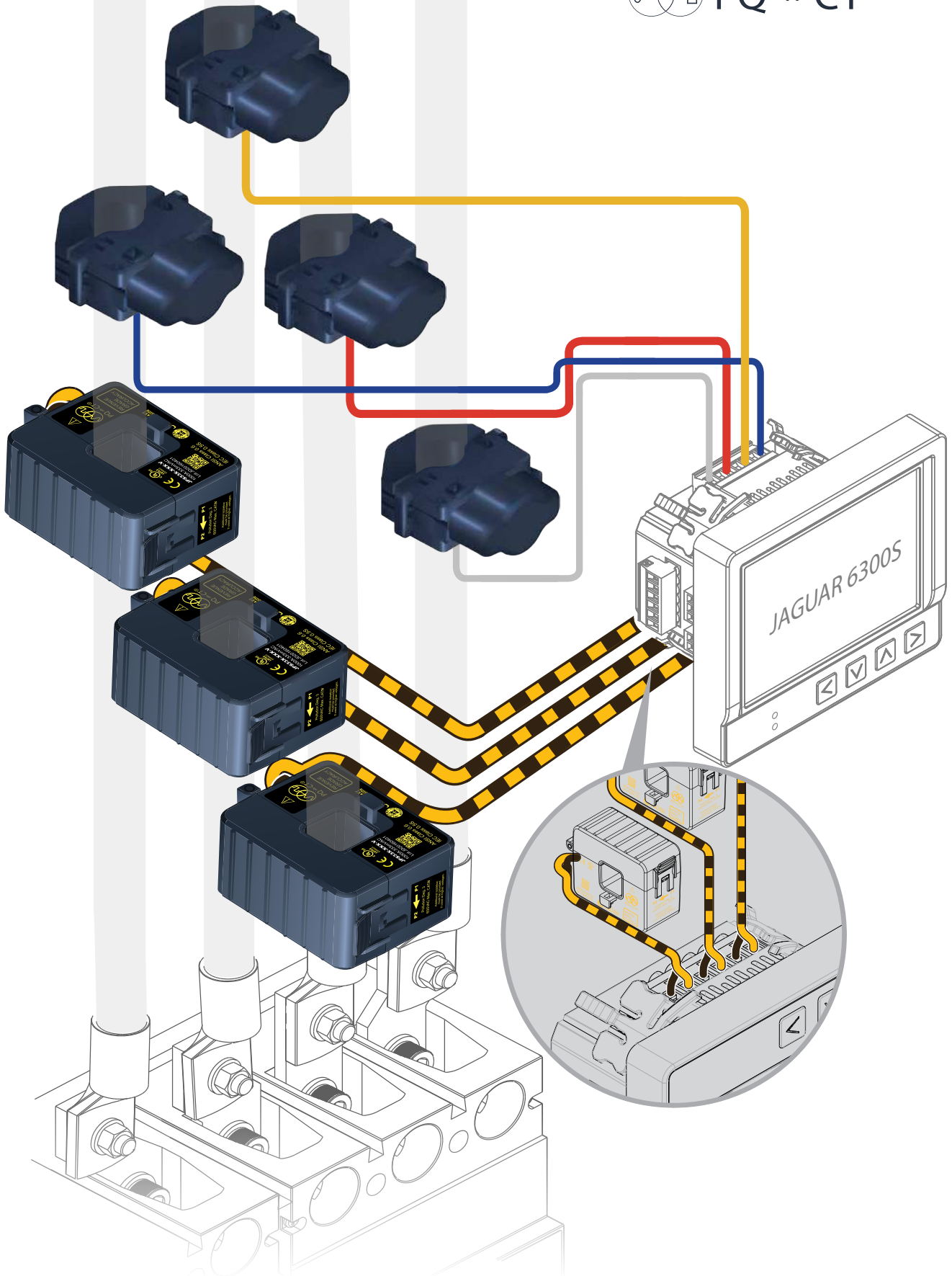
Easy installation

Contributes towards CO₂ reduction



JAGUAR IoT

 PQ ~ CT®





Split-Core Current Transformer Installation Guide

JPSXXX-XXX-X Series



DANGER: Hazardous Voltages
Hazard of Electric shock, Explosion,
or Arc Flash

The JPSXXX-XXX-X series PQ-CT current transformers measure AC line current in circuits up to 600 Vac and nominal currents up to 1200 amps.

They are easy to install with their split-core design. The PQ-CT is ideal for use in High Performance Power Quality Monitoring (IEC 61000-4-30 Class A or S). It may also be used in other power metering applications.

The JPSXXX-XXX-X may be field-installed inside distribution and control equipment such as switchboards and panelboards, or used in equipment designed for MV / LV substations, power quality meters, energy meters, branch circuit meters, PV monitoring, motor quality diagnostics, traction and data center use, etc.

Precautions

- ◆ Install in accordance with ANSI/NFPA 70, "National Electrical Code" (NEC). Follow all local electrical codes.
- ◆ Only qualified personnel or licensed electricians should install the current transformer (CT). Line voltages of 120 Vac to 600 Vac can be lethal.
- ◆ Do not install CTs where they block ventilation openings.
- ◆ Do not install CTs in the area of breaker arc venting.
- ◆ The current transformer cannot measure direct current (DC), and excessive DC will degrade AC measuring accuracy.
- ◆ Electrical codes prohibit installation of CTs in equipment where they exceed 75% of the wiring space of any cross-sectional area.
- ◆ The PQ-CT lead wires are considered Class 1 wiring (as defined by the NEC) and must be installed accordingly. They are not suitable for Class 2 wiring methods and should not be connected to Class2 equipment.
- ◆ If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- ◆ Do not install the CT where it may be exposed to: temperatures below -40°C or above 80°C (-40°F to 176°F), excessive moisture, dust, salt spray, or other contamination.
- ◆ The PQ-CT may be damaged if dropped or subjected to impact. This can result in reduced accuracy.

Pre-Installation Checklist

- ◆ The CT's rated current should match or exceed the maximum current of the measured circuit. Ensure that the fuse or circuit breaker's rating does not exceed the CT's maximum continuous current rating.
- ◆ For highest accuracy, try to separate the CTs installed on different phases by 1.0 inch (25 mm) to minimize magnetic interference.
- ◆ It is preferable to install the CT and meter or monitoring device close to each other. However, you may extend the CT wires by 300 feet (100 m) or more by using shielded twisted-pair cabling and by running the CT wires away from high current and line voltage conductors.

Connecting the Current Transformer

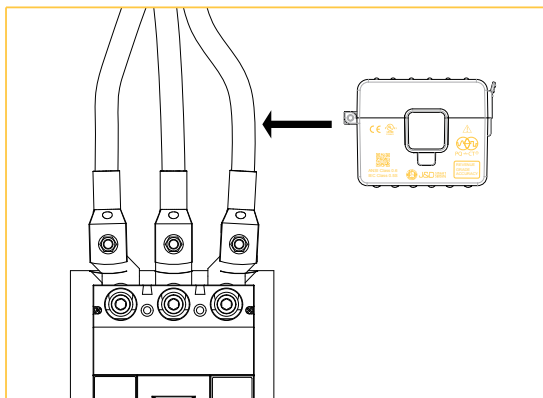
WARNING: Make sure that safe and proper working conditions exist prior to installing the CTs. Open/disconnect the circuit from the power distribution system before installing or servicing current transformers to reduce the risk of electric shock.

No special tools are required to install the PQ-CT, JPSXXX-XXX-X series. In order to connect the CTs to the meter correctly, follow these steps:

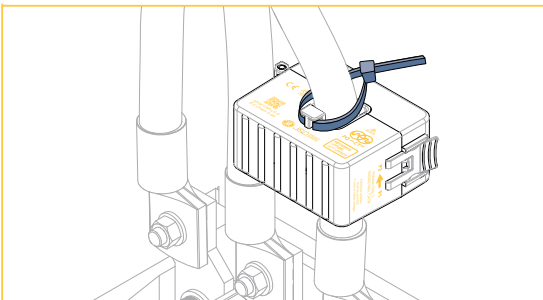
- 1) Find the correct direction of the current flow. P1 should face the source of current.

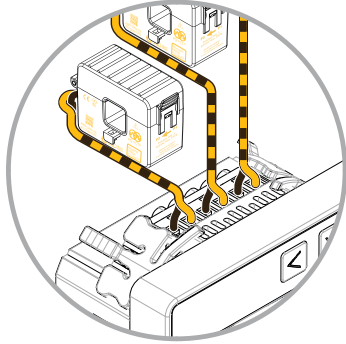
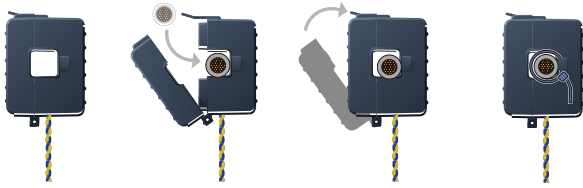
Note: If the CT is mounted backwards, the measured power will be negative.

- 2) Make sure all contact surfaces are clean. Debris will increase the magnetic gap, decreasing accuracy. Place the CT around the conductor and close the CT.

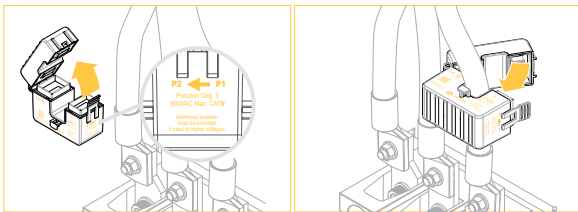


- 3) Use cable ties to ensure the PQ-CT does not move from its position around the conductor.



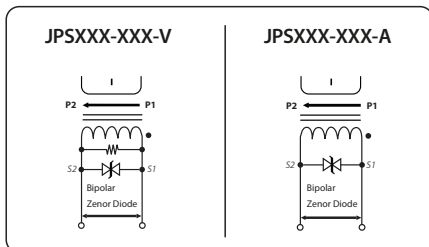


- 4) Connect the secondary leads to the meter. The secondary current from PQ-CT should flow to the meter through S1.
- 5) Close PQ-CT after verifying the installation. You will hear a 'click' if the CT has been closed properly.



Note : If the Yellow and Brown wires are reversed, the measured power will be negative. Be careful to match the CT to the voltage phases being measured. Make sure the Ø A CT is measuring the current on the Ø A conductor, and the same for phases B and C. Use colored tape or labels to identify the wires.

Wiring Diagram



Specifications

JPSXXX-XXX-XX		
Model	JPSXXX-XXX-V	JPSXXX-XXX-A
Rated Amps		
JPS10	5, 15, 20, 30, 50, 70, 100	30, 50, 70, 100
JPS20	5, 15, 20, 30, 50, 70, 100, 125, 150, 200, 250	30, 50, 70, 100, 125, 150, 200, 250
JPS33	250, 300, 400, 500, 600	250, 300, 400, 500, 600
JPS52	400, 500, 600, 800, 1000, 1200, 1600	400, 500, 600, 800, 1000, 1200, 1600
Input Current	AC current, sine wave, 50/60Hz (specify)	
Output Voltage	100, 250 333, 500mV AC	-
Output Current	-	40, 50, 80, 100mA AC

- ◆ Insulation Category: CAT IV (service entrance): 600 Vac per IEC 61010-1
- ◆ Standard Accuracy (% of reading) IEC Accuracy Class: IEC 61869-2 Class 0.2S or 0.5S US Accuracy Class: IEEE/ANSI C57.13, Class 0.3 or 0.6
- ◆ Standard Lead Length: 8 ft (2.4m) 18 AWG (Shielded cable option available)
- ◆ Bandwidth: 40Hz to 400Hz standard
- ◆ Operating Temperature: -40°C to 80°C
- ◆ Altitude: Up to 3000 meters, Pollution Degree 3, Humidity up to 95% (non-condensing)
- ◆ Construction: Molded cases 120°C UL recognized plastic

SPLIT-CORE CTs JPS series

The JPS series revenue-grade, split-core current transformers offer the high accuracy and low phase shift, and the easy two-handed opening and closing, with a safe output values of 100, 250, 333 mVac of voltage output and 50, 80, 100mA ac of current output. The JPS series fulfill the standards, IEEE/ANSI C57.13, Class 0.3/0.6/1.2 accuracy and IEC 61869-2 Class 0.2S/0.5S/1.0S accuracy. The JPS series revenue-grade split core CTs are optimized for Renewable energy power monitoring, Distribution circuit metering, and Power quality metering. They have a hinged opening mechanism for easy installation.



Applications	Features	Benefits
Power Metering.	PC spring, secure locking hinge, one-touch structure	Simple Installation
Sub-metering for Building, Energy efficiency monitoring, consumption analysis, and cost allocation.	make easy to install to the existent equipments such as a power distribution boards.	Small-size, light-weight
Power Quality Monitoring for Distribution System Equipment.	Isolated plastic case recognized according to UL94-V0	Over-Voltage protection circuit is installed.
Condition Monitoring for Conveyers, Pumps, etc.	N type (Nickel core) F type (Ferrite core)	
Hybrid Inverter for Home Energy Storage.	Lead wire: Yellow / Brown	
Distributed Measurement Systems.		

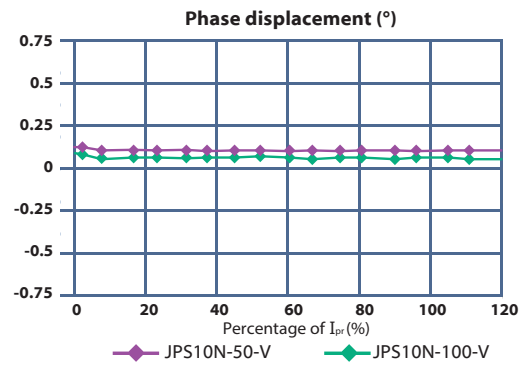
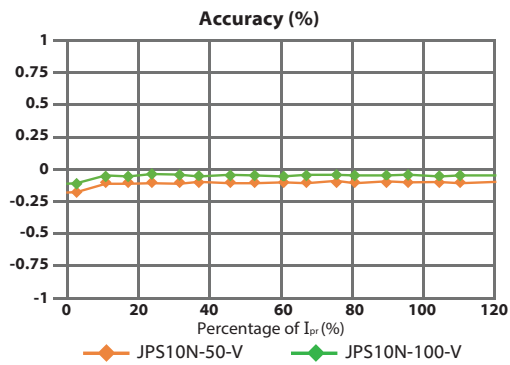
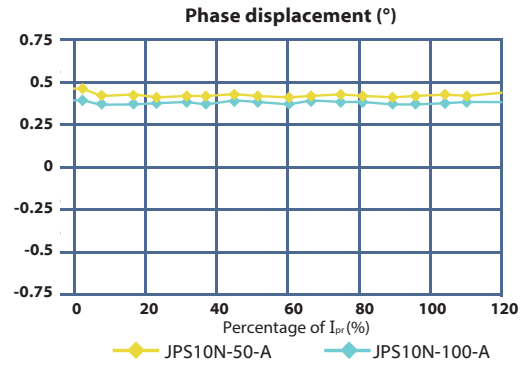
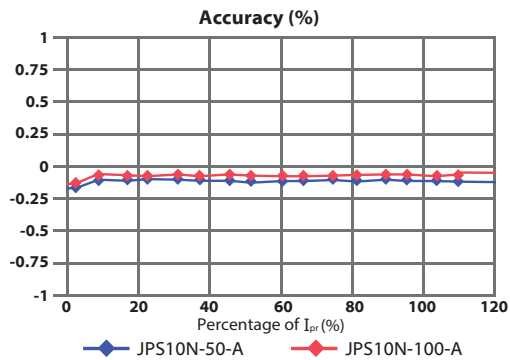
Specification				
	JPS10X-XXXX-X	JPS20X-XXXX-X	JPS33X-XXXX-X	JPS52X-XXXX-X
Accuracy	0.2S/0.5S/1.0 class	0.2S/0.5S/1.0 class	0.2S/0.5S class	0.2S/0.5S class
Rated Amps	A type	30, 50, 70, 100	30, 50, 70, 100, 125, 150, 200, 250	400, 500, 600, 800, 1000, 1200
	V type	5, 15, 20, 30, 50, 70, 100	5, 15, 20, 30, 50, 70, 100, 125, 150, 200, 250	250, 300, 400, 500, 600
Input Current	AC current, sine wave, 50/60Hz (specify)			
Output Voltage (V type)	100, 250, 333, 500, 1000mVac			
Output Current (A type)	40, 50, 80, 100mAac			
IEC Accuracy Class	IEC 61869-2 Class 0.2S/0.5S/1.0	IEC 61869-2 Class 0.2S/0.5S/1.0	IEC 61869-2 Class 0.2S/0.5S	IEC 61869-2 Class 0.2S/0.5S
US Accuracy Class	IEEE/ANSI C57.13, Class 0.3/0.6/1.2	IEEE/ANSI C57.13, Class 0.3/0.6/1.2	IEEE/ANSI C57.13, Class 0.3/0.6	IEEE/ANSI C57.13, Class 0.3/0.6
Standard Lead Length	8 ft (2.4m) 18 AWG (Shielded Cable option)			
Bandwidth	40Hz to 400Hz standard			
Insulation Category	(PD2-1000VACrms. CATIII per 61010-1) 600VACrms. CATIV per 61010-1			
Operating Temperature	-40°C to 70°C			
Altitude	Up to 3000 meters, Pollution Degree 3, Humidity up to 95% (non-condensing)			
Construction	Molded cases 115°C UL recognized plastic			

Accuracy class 0.2S/ 0.5S/ 1.0 according to IEC 61869-2

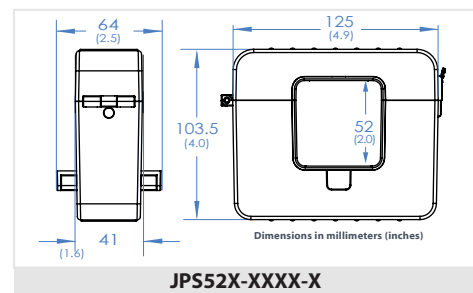
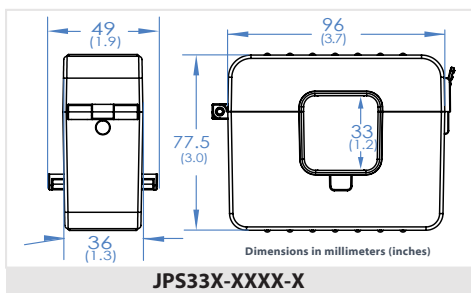
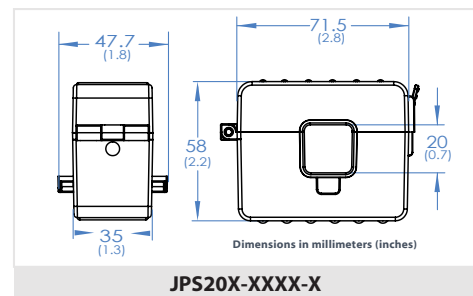
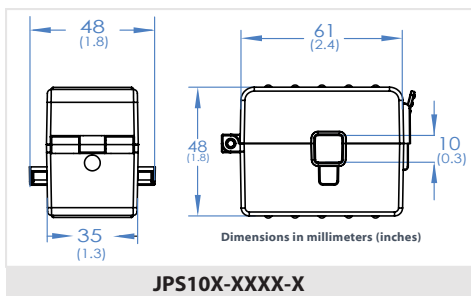
Accuracy Class	±Percentage current(ratio) error at percentage of rated current shown below					±Phase displacement at percentage of rated current shown below				
	1%	5%	20%	100%	120%	1%	5%	20%	100%	120%
0.2S	0.75	0.35	0.2	0.2	0.2	30	15	10	10	10
0.5S	1.5	0.75	0.5	0.5	0.5	90	45	30	30	30
1.0		3.0	1.5	1.0	1.0		180	90	60	60

Typical performance characteristics (F(l))[%]&f[°]@25°C/0.05VA@5

0Hz/60Hz



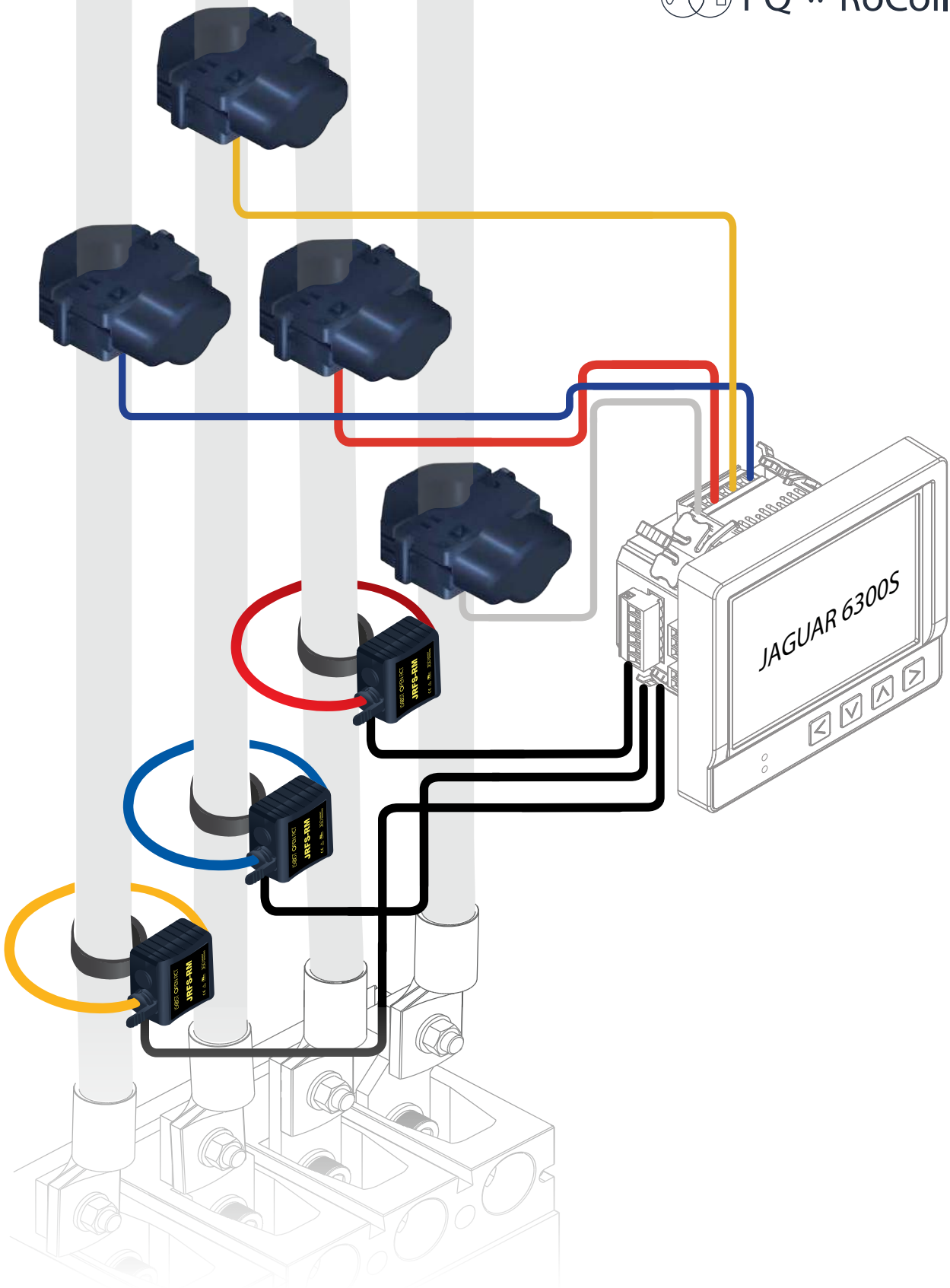
Dimensions





JAGUAR IoT

PQ  RoCoil®





Flexible Rogowski Current Transformer Installation Guide JRFS Series

Overview

The JRFS series flexible Rogowski coil current transformer (PQ-RoCoil) can monitor AC line current in circuits up to 1000 Vac and nominal currents up to 6000 Amps. They can be opened and are flexible for ease of installation around bus bars and multiple conductors. They are intended for field installation within distribution and control equipment such as panelboards, switchboards and industrial control equipment to measure the current on branch circuits and feeders.

The JRFS Series CTs may be used with electric energy meters, like the POWER meters, or for other current measuring purposes. PQ-RoCoils are different in a few key ways from standard CTs. They do not contain a ferromagnetic core, so they cannot saturate, they have excellent linearity, and they have very low phase angle errors. Because they lack a core, it is possible to make them flexible and lightweight. Furthermore, the coil output signal is low voltage (less than one volt AC) and low current (microamps or less), so they are safer than ratio CTs.

JRFS models require an integrating conditioning module, since the output of the coil represents the rate of current change (derivative) of the actual current. PQ-RoCoils are dependent on the uniformity of the windings in the sense coil, making them more sensitive to the position of the conductor(s) being measured in the opening and more sensitive to the magnetic fields from external conductors

Precautions

- ◆ Only qualified personnel or licensed electricians should install current transformers (CTs). The line voltages of 120 Vac to 1000 Vac can be lethal!
- ◆ These transformers are intended to be installed in accordance with ANSI/NFPA 70, "National Electrical Code" (NEC). Follow all local electrical codes.
- ◆ Do not install CTs in the area of breaker arc venting.
- ◆ Do not install CTs where they may be exposed to temperatures below -4°F or above 140°F (-20°C or above 60°C), excessive moisture, dust, salt spray, or other contamination.
- ◆ PQ-RoCoil current transformers measure alternating current (AC) only. They do not measure direct current (DC).

Pre-Installation Checklist

- ◆ The current transformer's full-scale rated current should normally be somewhat above the maximum current or breaker rating of the circuit being measured.
- ◆ It is preferable to install the CT and meter close to each other. However, you may extend the CT wires by 300 feet (100 m) or more by using twisted-pair cable (optionally shielded) and by running the output wires away from high current and line voltage conductors.

Components

The JRFS series Rogowski coil current transformers include the following components:

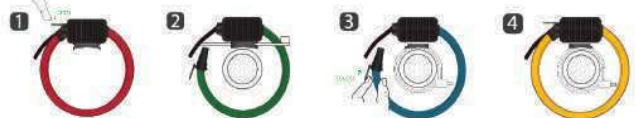
- ◆ **Coil**
red coil with a plastic latch piece to hold the ends together and connect to the coil cable.
- ◆ **Latch:** this is the black plastic piece that holds the ends of the coil together
- ◆ **Coil cable:** the coil cable is the black shielded cable that runs from the coil to the conditioning module
- ◆ **Conditioning module:** this is the small white plastic box with the six-position green screw terminal. It processes the raw output of the Rogowski coil into a 333 mVac signal that is compatible with POWER meters.
- ◆ **Output wires:** (not shown) these are the white and black twisted wires that connect the conditioning module to the meter.
- ◆ **Power supply:** (not shown) a power supply is required to operate the conditioning module. The power supplies
twelve conditioning modules.

The power supply is not included and must be ordered separately, generally one supply for every three to twelve JRFSS.

Installation Notes

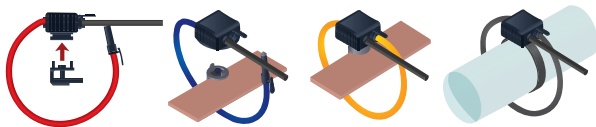
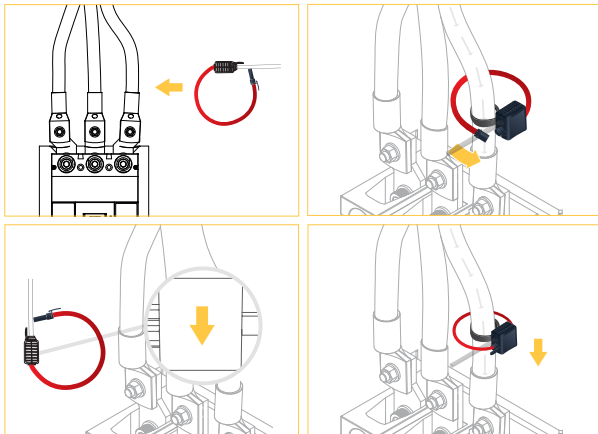
How to use

>>>



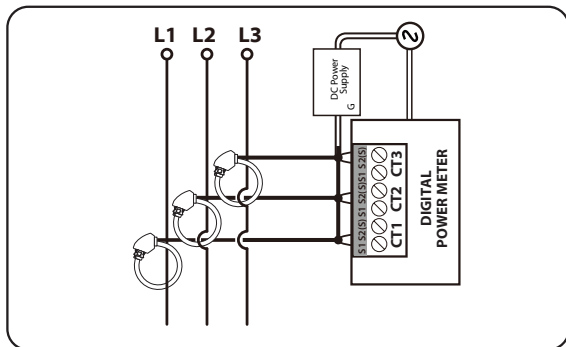
- ◆ If the white and black output wires are reversed, the measured power will be negative.
- ◆ When connecting to a POWER meter, align the white JRFS lead wire with the white dot on the label, and the black lead wire with the black dot on the label

- ◆ Be careful to match the CT to the voltage phases being measured. Make sure the ØA CT measures the current on the ØA conductor, and the same for phases B and C. Use colored labels or tape to identify the wires.



- ◆ You may double loop the JRFs around a conductor: this halves the opening diameter and halves the effective rated amps. For example, double looping a JRFs-305S (4000A) results in a CT with an opening diameter of 6 inches (15 cm) and a rated current of 2000 amps

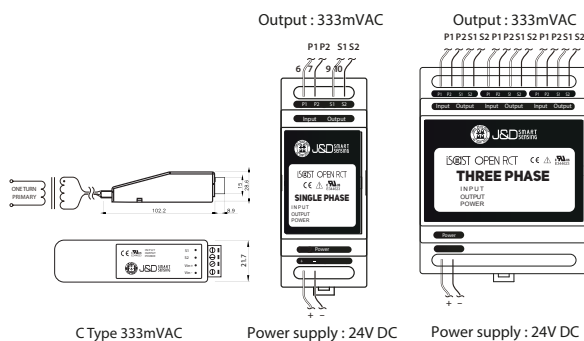
OUTDOOR POWER & INDOOR POWER LOAD



Specification

- ◆ Accuracy All measurements at 77°F (25°C) and 60 Hz unless otherwise noted. Accuracy: $\pm 1.0\%$ of reading from 5% to 120% of rated primary current
- ◆ External conductor sensitivity : $\pm 2.0\%$ of full-scale maximum. To clarify: if an external conductor carrying this CT's rated current is touching this CT, especially near the latch, then the output of this CT may change by up to $\pm 2.0\%$ of the rated current.
- ◆ - External conductor sensitivity : $\pm 2.5\%$ of full-scale maximum
 - Positioned in corner: $\pm 1.0\%$ maximum (if the CT is placed at a sharp corner of the conductor being measured)
 - Positioned in corner : $\pm 2.0\%$ maximum
 - Varying temperature: $\pm 1.5\%$ from -4°F to 140°F (-20°C to 60°C)
- ◆ Positioned in corner : $\pm 1.0\%$ maximum (if the CT is placed at a sharp corner of the conductor being measured)
- ◆ Positioned in corner : $\pm 2.0\%$ maximum
- ◆ Varying temperature : $\pm 1.5\%$ from -4°F to 140°F (-20°C to 60°C)
- ◆ - Phase angle: ± 0.50 degrees (30 minutes) from 5% to 120% of rated current
 - Conductor position sensitivity: ± 0.10 degrees max
 - External conductor sensitivity: ± 0.25 degrees max
 - Positioned in corner: ± 0.10 degrees maximum
 - Varying temperature: -4°F to 140°F (-20°C to 60°C): ± 0.10 degrees
- ◆ Conditioning Module Output at rated amps : 333.33 mVAc (one-third volt)
 - Maximum output: 1.3 Vac Power
 - requirements: 10 – 30 Vdc (12 Vdc or 24 Vdc recommended), 50 mA typical, 70 mA maximum
- ◆ Environmental Operating temperature: -4°F to 140°F (-20°C to 60°C)
 - Operating humidity: Non-condensing, 5 to 90% relative humidity (RH)
 - Pollution: POLLUTION DEGREE 2
 - Indoor use: Suitable for indoor use.
 - Outdoor use: Suitable for outdoor use when mounted in a NEMA 3R or 4 (IP 66) rated enclosure.

INTEGRATOR C/S/T-XXX SERIES

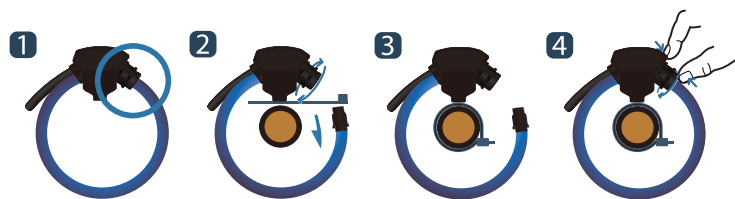


REMOTE CT ACCESSORY JRF MOI XXXPU series

JRF-MOI-PU Rogowski coil current transformer are accurate, flexible, rope style air coils that can be connected around conductors while the conductor is “lives”. They are easier to install and measure than traditional split and solid core CT. With their flexible design and light weight, they are ideal for bus bars and irregular-shaped bundles of multiple conductors. The Rogowski coil technology offers low phase shift error, inductance and excellent linearity while largely immune to electromagnetic interference and pulsed DC, providing a high rate of accuracy.

JRF-MOI-PU coils can be used in single and three-phase measurement applications. The output of the built-in voltage integrator provides an AC voltage of 333mV at the rated input current. There is an option to choose a different output voltage between 100-500mV AC at up to 6,000 Amps. The built-in integrator and DC power supply allows simple wiring installation. Multiple rogowski coils can be powered by one AC/DC power supply.

※ Choose JRF-MOI-PUC if you require ties for fixing to the conductor

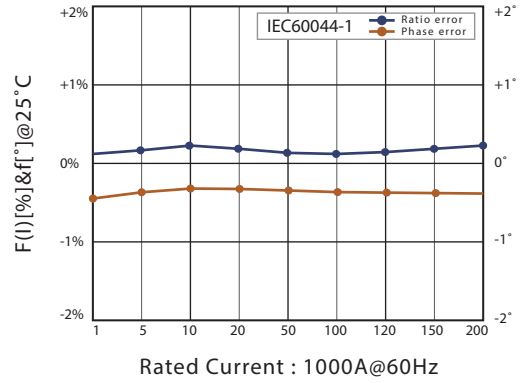
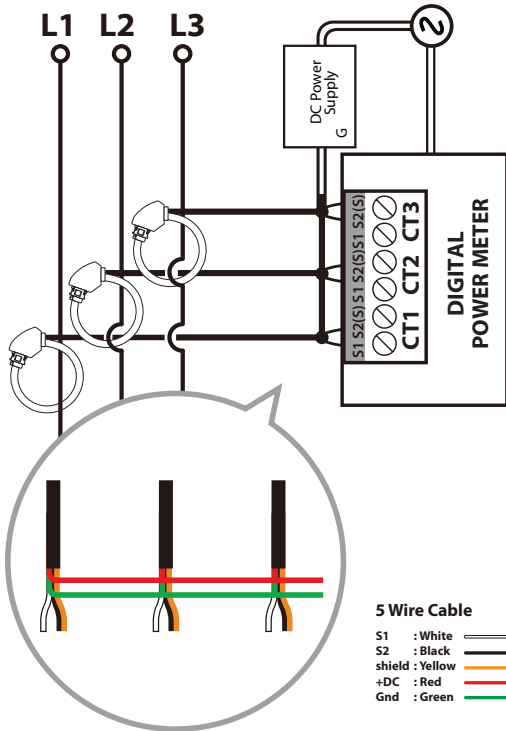


Applications	Features
Revenue-Grade distribution transformer monitoring	AC current probe
Energy sub-meters	Flexible and lightweight
Power meters	Easy & quick installation in uninterruptible power line
Power quality monitoring	Insulation CAT III 1,000V AC, IV 600V AC.
Condition monitoring	Accuracy Class 0.5/1.0 complying with IEC61869-2, ANSI C57.13
Distributed measurement systems	In progress of certification for & CE complying with IEC61010-1
	IP65, IP67, IP68 (International Protection code)
	Several size are available from coil length from 285 to 385mm (aperture from 80 to 115 mm)

Specification		
Model	JRF MOI XXXPU-80	JRF MOI XXXPU-115
Current Range	250 Amp to 6,000 Amp	
Rated Currents	250, 300, 400, 500, 600, 800, 1k, 1.2k, 1.5k, 2k, 2.4k, 2.5k, 3k, 4k, 5k, 6k	
Max Output	1.3VAC	
Accuracy	<1% typical at 2% to 120% of rated current	
Rated Output Voltage	333 mV AC	
Power Requirement	+24V DC, ±5%, 70mA Maximum	
Phase Shift	<0.5° at rated current	
Frequency	50/60Hz	
Linearity	±0.2%	
Conductor Position Sensitivity	±1% maximum	
Influence of External Fields	±1.5% maximum	
Operating Temperature Range	-25°C ~ +65°C	
Coil length	From 285 to 385mm	
Connection Cable Type	4 x AWG24	
Connection Cable length	on request	

Outdoor Power & Indoor Power Load

Ratio & Phase Error Graph



Positioning Error



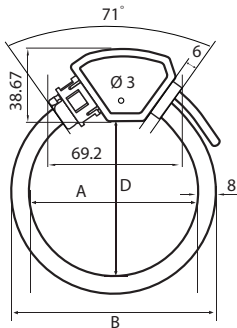
Conductor Position	Typical Error (%)
● Adjacent to the coil edge	< 0.5%
● Adjacent to the clip together mechanism	< 0.5%
● Central in the Rogowski loop	0.1%

Note that with a larger conductor the variation of error with conductor position will decrease and approach the calibrated value.

AC / DC Power Supply

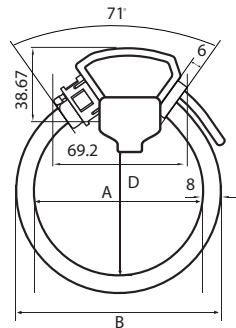
Models	Application	AC Input Voltage (Nominal)	Nominal Weight
FWA020012A-10B	Desktop power supply, For up to 24 pcs JRF-MOI xxxPU Conditioning Circuits	85-264 Vac (100-240)@1.67 amps	11.5 oz (326 grams)
MDR-10-12	DIN-rail power supply, For up to 12 pcs JRF-MOI xxxPU Conditioning Circuits	85-264 Vac (100-240)@0.84amps	6 oz (170 grams)

Dimensions (Choose JRF_MOI_PUC If you Require Ties For Attaching to the Cobductor)



* Unit : mm

Model	A	B	C	D
JRF MOI xxxPU-80	80	96	285	80
JRF MOI xxxPU-115	115	131	385	115

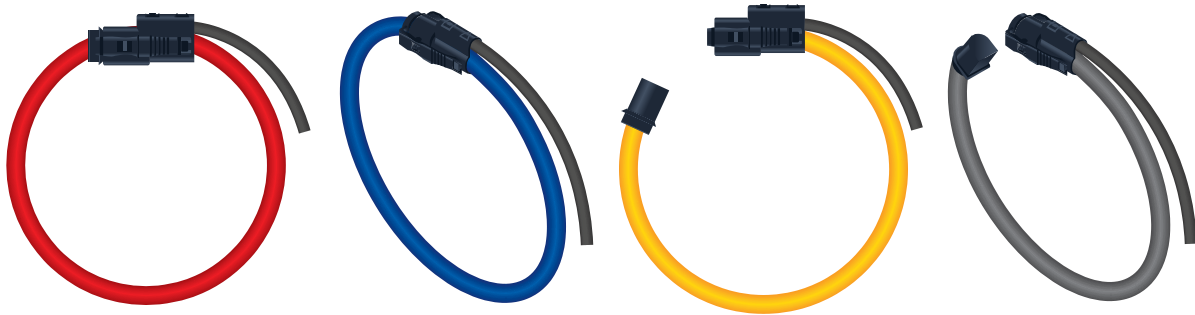


* Unit : mm

Model	A	B	C	D
JRF MOI xxxPUC-80	80	96	285	70
JRF MOI xxxPUC-115	115	131	385	105

REMOTE CT ACCESSORY JRFS-XXS/A series

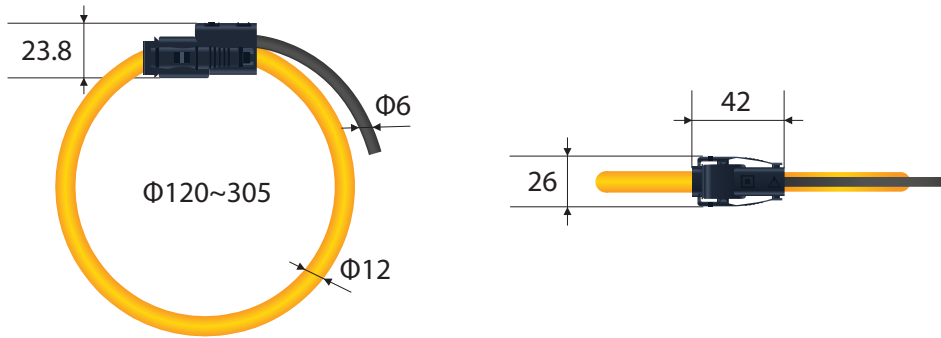
Clamp-on Flexible Rogowski coil Current Transformer has been designed for accurate measurement of wide AC current, pulsed DC or distorted waveforms. It may be used to measure AC current over a wide dynamic range and from 10Hz to 20kHz.



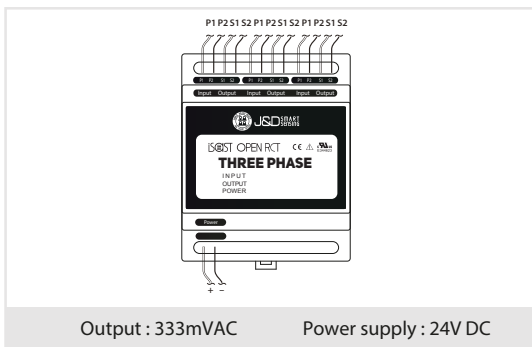
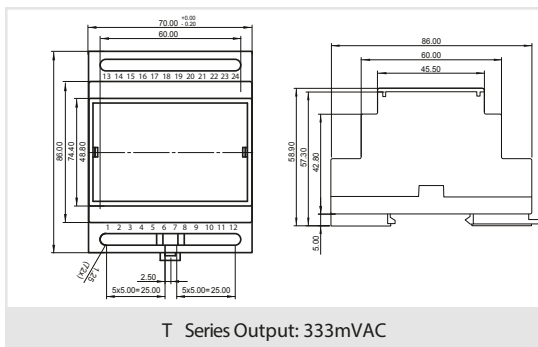
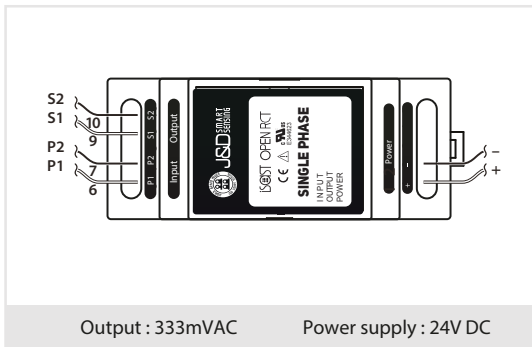
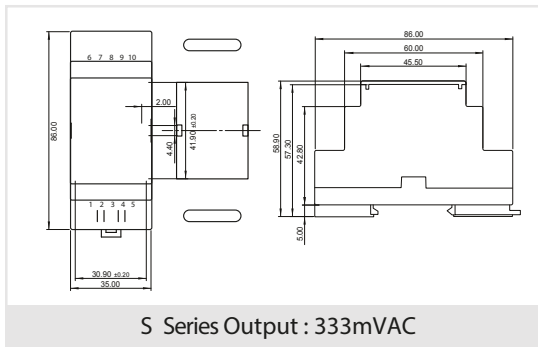
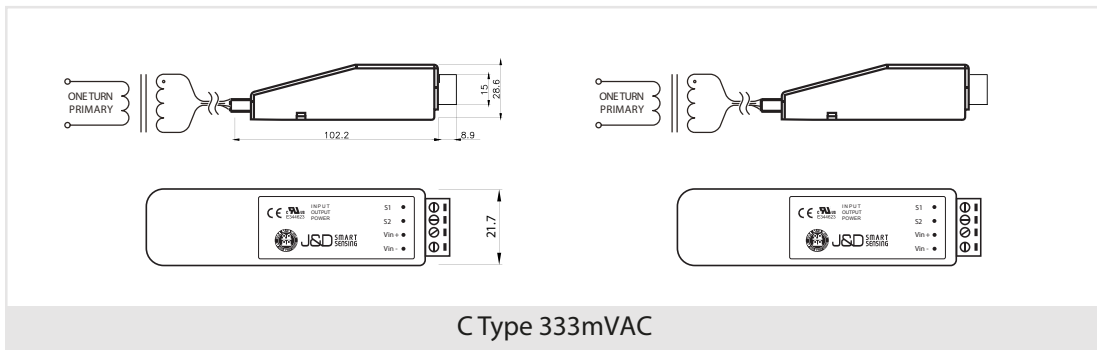
Applications	Features
Very high current monitoring	AC current probe utility by the Rogowski principle
DC ripple measurement	Flexible and lightweight
Harmonics and transients monitoring	Easy & quick installation in uninterruptible power line
Power monitoring & control systems	Available shielding type on request
Applicable in electronic Watt-hour meter	No danger from open-circuited secondary
	High secondary output voltage & precise linearity error
	Isolated plastic case recognized according to UL94-V0

Specification		JRFS-120X	JRFS-190X	JRFS-305X
Model		JRFS-120X	JRFS-190X	JRFS-305X
Rated Current		500A ~ 2kA	1kA ~ 4kA	2kA ~ 6kA
Output Voltage	A Type	100mV(50Hz) [120mV(60Hz)] 1kA		
	S Type	333mV(50Hz) [399.6mV(60Hz)] 1kA		
Accuracy		< 1%		
Phase Shift		< 1° at 50/60Hz (typical < 0.5°)		
Frequency Range		10Hz to 20kHz		
Output Sensitivity Tolerance		±10% maximum(Uncalibrated)		
Output Sensitivity Tolerance		±0.5% of reading at 25°C (Calibrated)		
Linearity (10% to 100% of range)		±0.2% of reading		
Conductor Position Sensitivity		±2% maximum		
Influence of External Field		±2% maximum		
Working Temp.		-30°C ~ + 60°C		
Storage Temp.		-40°C ~ + 60°C		
Insulation Category		CAT III 1000V / CAT IV 600V (PD2-Double Insulation)		
Safety Standards		EN/UL/cUL 61010-1, 61010-2-032		
Testing Voltage		7400V/1min		

Dimensions

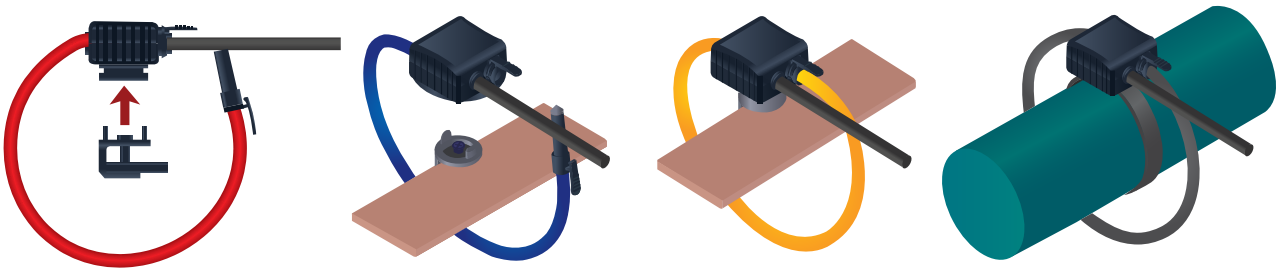


Option : Integrator C/S/T-XXX series



REMOTE CT ACCESSORY JRFS-XXXR/U (X-XXX) series

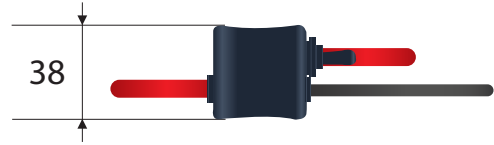
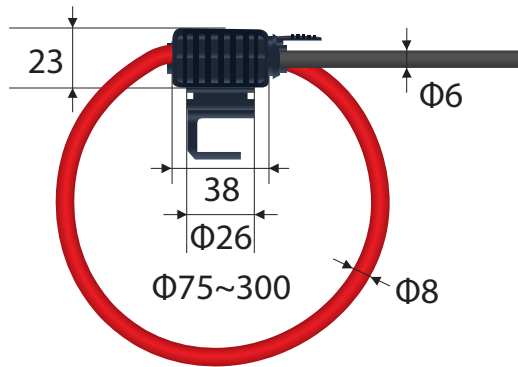
Clamp-on Flexible Rogowski coil Current Transformer has been designed for accurate measurement of AC current with a safe output voltage RMS. JRFS-XXX-R/U (X-XXX) series is the precision current probe for Revenue-Grade Distribution transformer monitoring. With voltage integrator configuration, it can replace the existing CT directly.



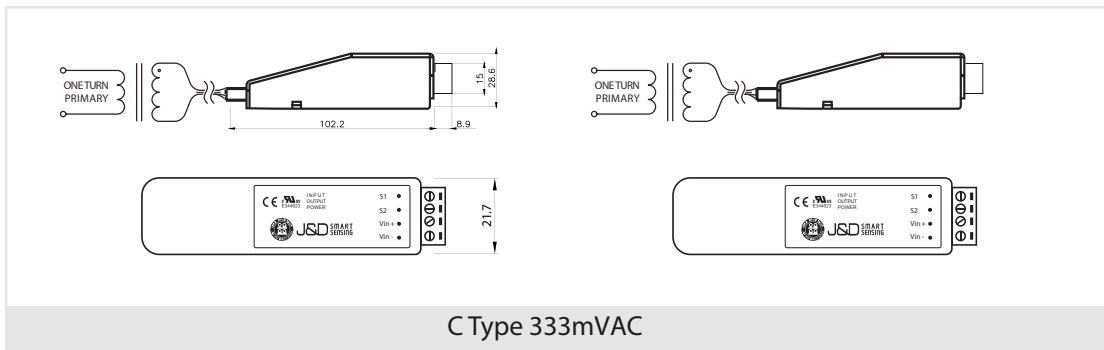
Applications	Features
Very high current monitoring	AC current probe utility by the Rogowski principle
DC ripple measurement	Flexible and lightweight
Harmonics and transients monitoring	Easy & quick installation in uninterruptible power line
Condition monitoring	Insulation CAT III 1000V, IV 600V
Distributed measurement systems	Certificated for UL & CE complying with IEC 61010-1
	Optional size is available from ID 75 to 300mm. (ex. ID 80mm)

Specification		JRFS-080X	JRFS-115X	JRFS-180X	JRFS-300X
Model		JRFS-075X	JRFS-105X	JRFS-170X	JRFS-295X
Rated Current		500A ~ 6kA			
Output Voltage	R Type	104mV(50Hz) [124.8mV(60Hz)] 1kA			
	U Type	35mV(50Hz) [42mV(60Hz)]1kA			
Accuracy		< 1%			
Phase Shift		< 1° at 50/60Hz (typical < 0.5°)			
Frequency Range		10Hz to 20kHz			
Output Sensitivity Tolerance		±10% maximum(Uncalibrated)			
Output Sensitivity Tolerance		±0.5% of reading at 25°C (Calibrated)			
Linearity (10% to 100% of range)		±0.2% of reading			
Conductor Position Sensivity		±2% maximum			
Influence of External Field		±2% maximum			
Working Temp.		-30°C ~ + 80°C			
Storage Temp.		-40°C ~ + 80°C			
Insulation Category		CAT III 1000V / CAT IV 600V (PD2-Double Insulation)			
Safety Standards		EN/UL/CUL 61010-1, 61010-2-032			
Testing Voltage		7400V/1min			

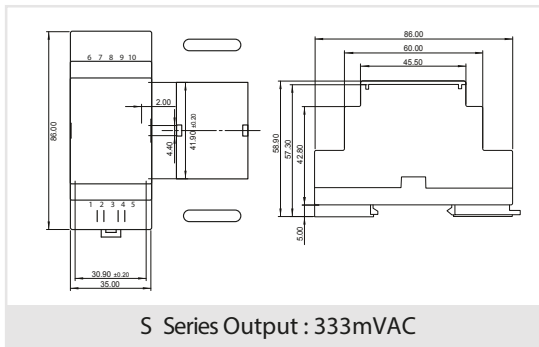
Dimensions



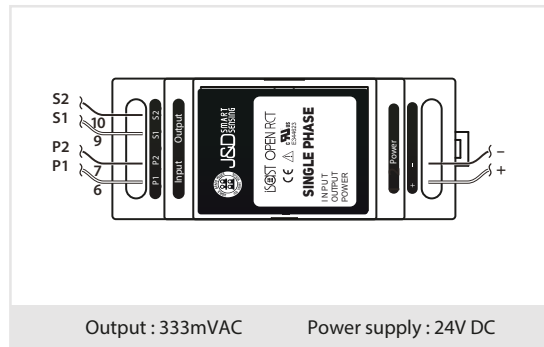
Option : Integrator C/S/T-XXX series



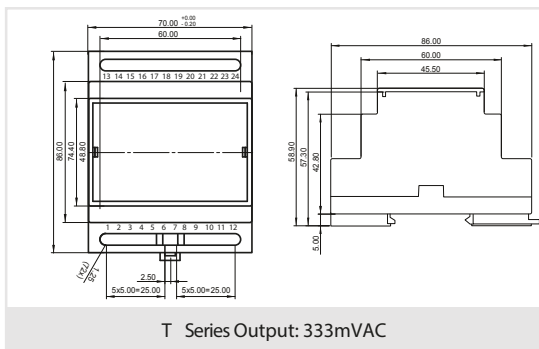
C Type 333mVAC



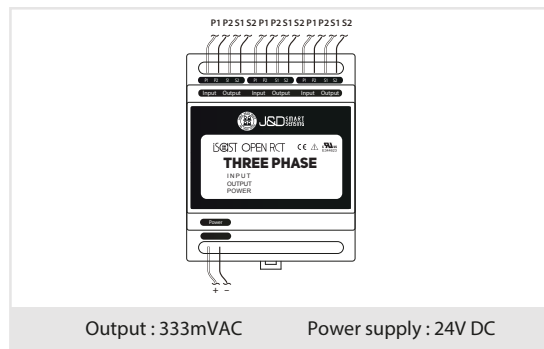
S Series Output : 333mVAC



Output : 333mVAC Power supply : 24V DC



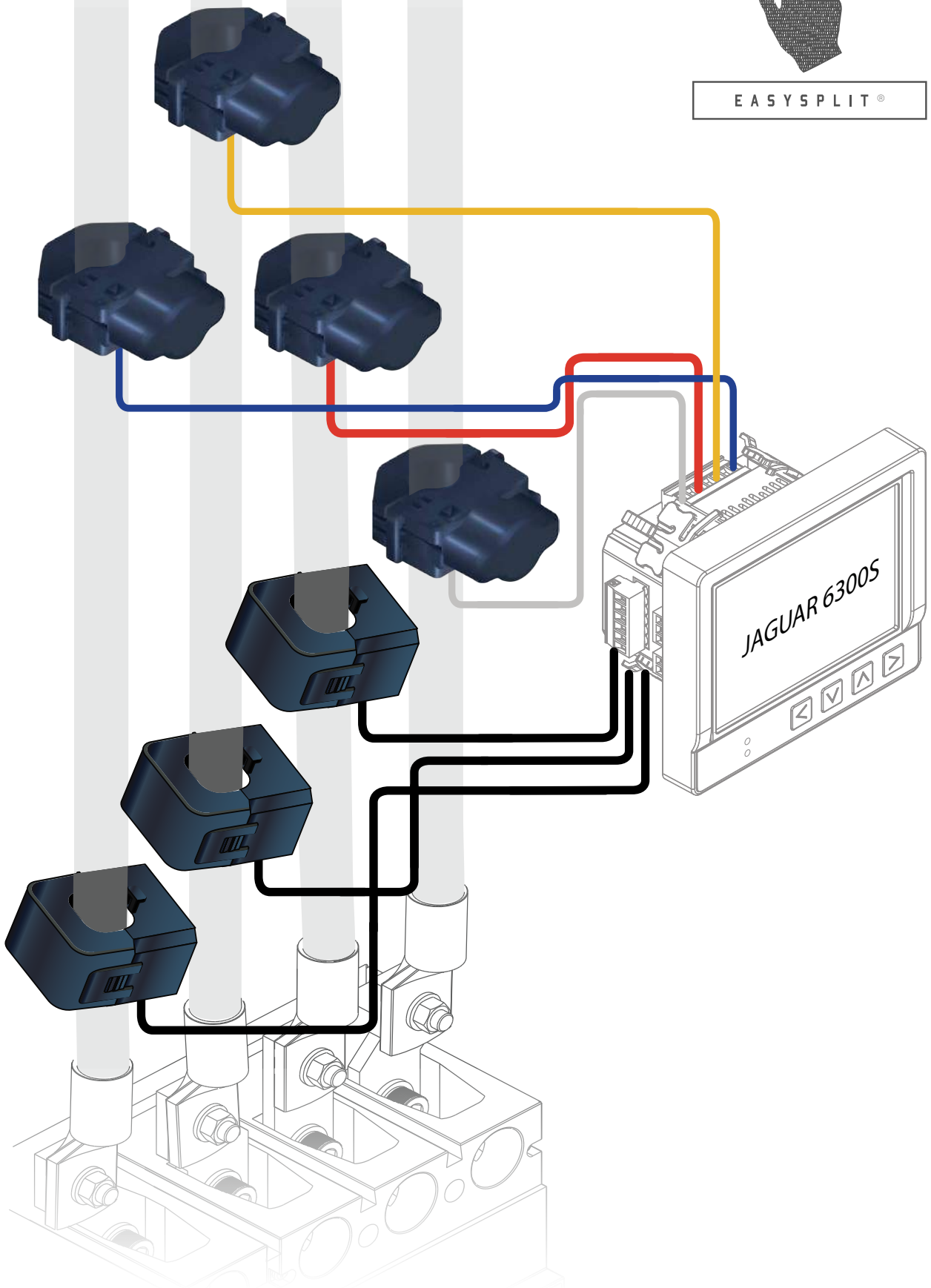
T Series Output : 333mVAC



Output : 333mVAC Power supply : 24V DC



EASYSPLIT®



Split-Core Current Transformer Installation Guide



DANGER: Hazardous Voltages
Hazard of Electric shock, Explosion, or Arc Flash

Miniature Split core CT is suitable for primary ranges from 5 to 2,400A AC with mA, 0.1 A, 333mV AC secondary.
(In this catalog, some ranges are not provided. Find more information for the ranges not shown in this catalog at the website with the QR code at the end of this installation guide.)

It improves both intrinsic errors in low current and errors occurred by external vibration and shock with strong durability and minimum tolerance on cutting cross section of core. Main applications are sub metering, power meter, PLC(Programmable Logic Controller), energy automation and etc.

Precautions

- ◆ Install in accordance with ANSI/NFPA 70, "National Electrical Code" (NEC). Follow all local electrical codes.
- ◆ Only qualified personnel or licensed electricians should install the current transformer (CT). Line voltages of 120 Vac to 600Vac can be lethal.
- ◆ Do not install CTs where they block ventilation openings.
- ◆ Do not install CTs in the area of breaker arc venting.
- ◆ The current transformer cannot measure direct current (DC), and excessive DC will degrade AC measuring accuracy.
- ◆ Electrical codes prohibit installation of CTs in equipment where they exceed 75% of the wiring space of any cross-sectional area.
- ◆ The CTs lead wires are considered Class 1 wiring (as defined by the NEC) and must be installed accordingly. They are not suitable for Class 2 wiring methods and should not be connected to Class2 equipment.
- ◆ If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- ◆ Do not install the CT where it may be exposed to: temperatures below -20°C or above 55°C (-4°F to 131°F), excessive moisture, dust, salt spray, or other contamination.
- ◆ The CTs may be damaged if dropped or subjected to impact. This can result in reduced accuracy.

Pre-Installation Checklist

- ◆ The CT's rated current should match or exceed the maximum current of the measured circuit. Ensure that the fuse or circuit breaker's rating does not exceed the CT's maximum continuous current rating.
- ◆ For highest accuracy, try to separate the CTs installed on different phases by 1.0 inch (25 mm) to minimize magnetic interference.
- ◆ It is preferable to install the CT and meter or monitoring device close to each other. However, you may extend the CT wires by 300 feet (100 m) or more by using shielded twisted-pair cabling and by running the CT wires away from high current and line voltage conductors.

Connecting the Current Transformer

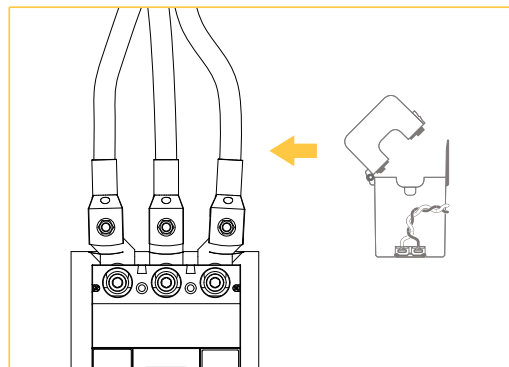
WARNING: Make sure that safe and proper working conditions exist prior to installing the CTs. Open/disconnect the circuit from the power distribution system before installing or servicing current transformers to reduce the risk of electric shock.

No special tools are required to install the Current Transformer series. In order to connect the CTs to the meter correctly, follow these steps:

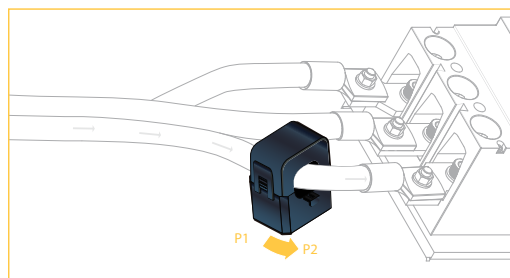
- 1) Find the correct direction of the current flow. P1 should face the source of current.

Note: If the CT is mounted backwards, the measured power will be negative.

- 2) Make sure all contact surfaces are clean. Debris will increase the magnetic gap, decreasing accuracy. Place the CT around the conductor and close the CT.

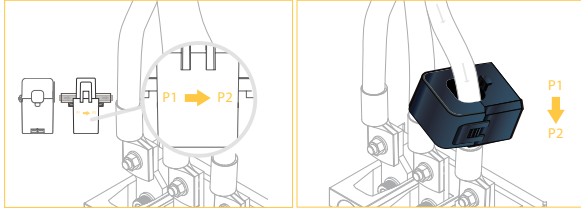


- 3) Use cable ties to ensure the CTs does not move from its position around the conductor.



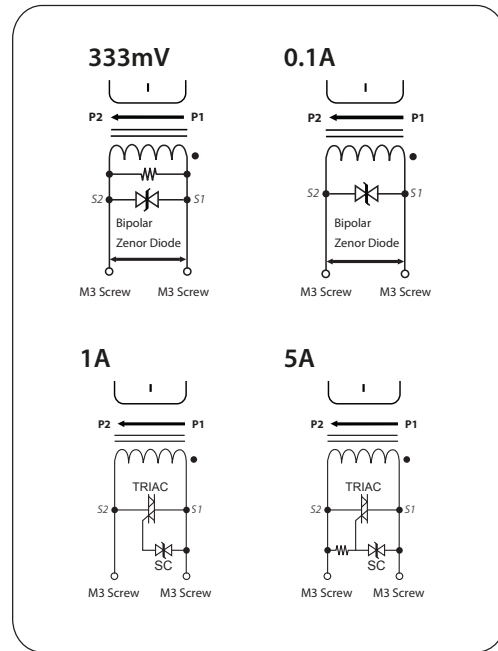
4) Connect the secondary leads to the meter. The secondary current from CTs should flow to the meter through S1.

5) Close CTs after verifying the installation. You will hear a 'click' if the CT has been closed properly.



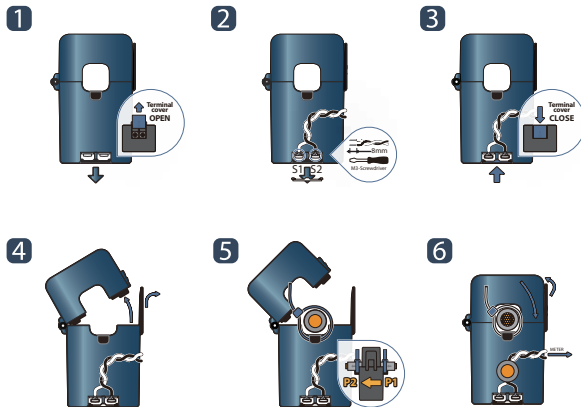
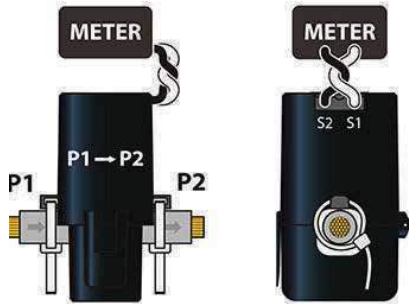
Note : If the white and black wires are reversed, the measured power will be negative. Be careful to match the CT to the voltage phases being measured. Make sure the Ø A CT is measuring the current on the Ø A conductor, and the same for phases B and C. Use colored tape or labels to identify the wires.

Wiring Diagram



Installation Notes

How to use
>>>



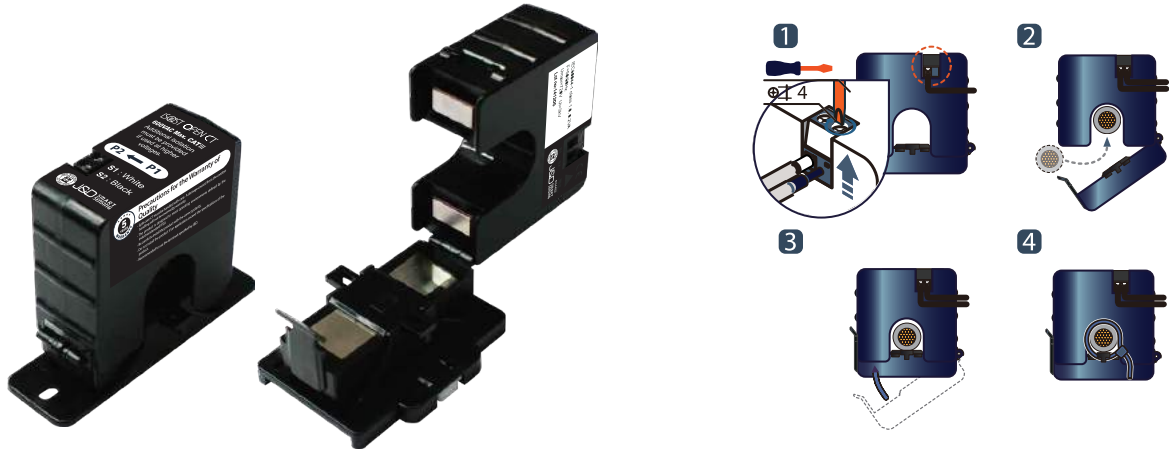
Specifications

- ◆ Accuracy: Class 0.5S / Class 1.0 (as indicated in each data sheet)
- ◆ System Voltage : 720V(0.72kV)
- ◆ Overload withstand : 1.2 times rated current continuously
- ◆ Compliant with : IEC/EN61869-2 & IEC61010-1
- ◆ Relative Humidity : 0-85% non-condensing
- ◆ Test Voltage : 3kV for 1 minute
- ◆ Operating Temperature : -20°C to 55°C
- ◆ Frequency Range : 50/60Hz
- ◆ Protection Level : 3.0V0-P
- ◆ Insulation Category : CAT II or CATIII 600VAC

SPLIT-CORE CURRENT TRANSFORMER JM21X-XXX-333mV AC

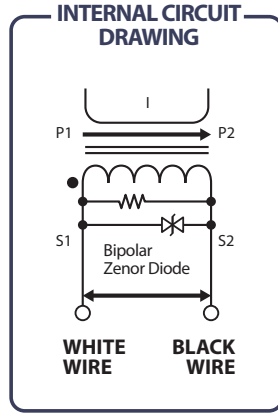
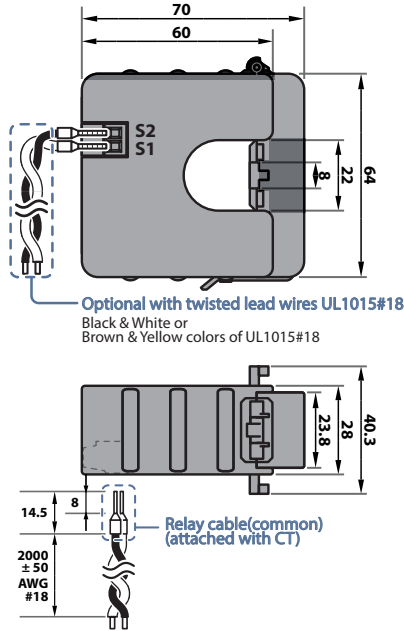


JM21X series of split-core current transformer offers 333mV AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JM21X series to meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact meter design and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.

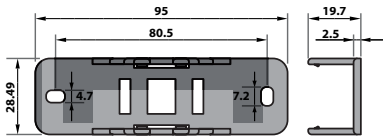


Applications	Features	Benefits	Notice
Power meter	Panel or DIN rail mountable, output-terminal,	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Additionally, CTs are deliverable with customized output lead cable.
Switchgear	secure locking hinge, one-touch structure	Simple Installation	
Distributed measurement systems	easily to install to existing equipment such as a power distribution board Isolated plastic case	Over-Voltage protection circuit is installed.	
General Sets	recognized according to UL94-V0		
Control panels	UL / EN 61010-1 certified		

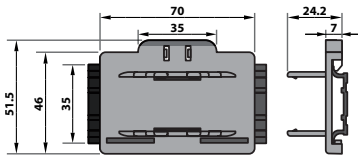
Specification	
Accuracy	IEC Class 0.5S, 1.0 / ANSI Class 0.6, 1.2
Output Terminals	Terminal Block (2P)
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1 & ANSI C57.13
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Test Voltage	3kV AC for 1minute
Frequency Range	50/60Hz
Protection Level	3.0V0-P
Insulation Category	CATIII 600V AC / PD2



• PANEL MOUNT

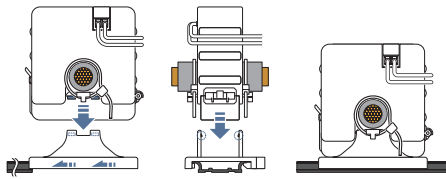
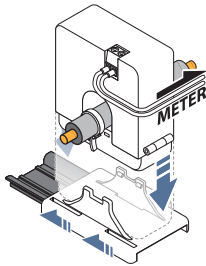


• DIN RAIL MOUNT



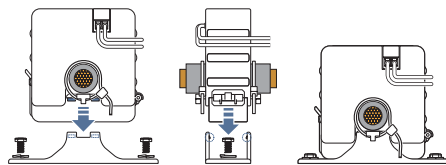
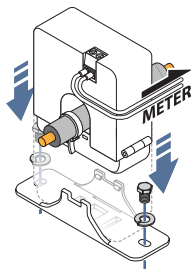
DIN RAIL MOUNTING

Mount the bracket on the rail and install current transformer



PANEL MOUNTING

Tighten screws on the hole to mount bracket and install current transformer



How to Order / Model Reference

eg **JM21X-000/333mV**

Model **J M 2 1 X**

Primary Current

Select code from CT table

Secondary Voltage

333mV AC

3 3 3 mV

Current Transformer Rated Values

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
	cl. 0.6	cl. 1.2	cl. 2.4	
5	0.0006	0.0006		005
15	0.0015	0.0015		015
20	0.002	0.002		020
30	0.0035	0.0035		030
50	0.005	0.005		050
70	0.008	0.008		070
100	0.01	0.01		100
150	0.02	0.02		150
200	0.02	0.02		200
250	0.03	0.03		250
		(JM21N)	(JM21F)	
333mV AC Secondary				

Accuracy conforms to IEC/EN61869-2& IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In



Precautions for the Warranty of Quality

- Split-core CT must be handled with care. A damage caused from the careless handling will not be covered by warranty.
- The product is designed to meet operating environments defined by the industrial standard IP20.
- Be sure about the right Primary current direction and terminal allocation. Otherwise any power measurements result in wrong values!
- Do not install the product if an application exceed the specifications of the product.
- Recommended to use the terminals specified by J&D.



Check Point for the Accurate Measurement

- Protection circuit built in inside of the product for user safety. An additional external protection circuit can impact the characteristics.
- The product is designed for measuring sinusoidal 50/60Hz of primary current. Be aware that it is possible to occur the significant error if it is used to measure non-sinusoidal.
- Use Split-core CT with proper diameter to fit the conductor, otherwise it may cause the ratio error and the phase shift.
- Be careful to install Split-core CT without any pollutions on the splitting core surfaces. The pollutions such as moisture, dust and rust can cause metering errors. After removing the pollutions, recommended to use WD-40 or CRC5-56 on the core surfaces.
- Check whether the secondary leads is connected correctly or not. If the connection is not correctly, the secondary output could be lower than the expected one.



Remarks for the Customized Products

- Please provide the technical requirements for a technical evaluation.
- The color of housing is changeable on the customer's requirements.
- The leads can be mounted on the terminals by J&D.
- A protective tailor-made housing is available.

SPLIT-CORE CURRENT TRANSFORMER JSXXS-XXX333mV



JS series of split-core current transformer offers 333mV at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JS series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Energy sub - meter	PC spring, output-terminal, secure locking hinge,	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Customizing output lead wire
Power meters	one-touch structure make easy to install to the	Simple Installation	
Power quality monitoring	existent equipments such as a power	Over-Voltage protection	
HVAC&Pumps, etc	distribution boards.	circuit is installed.	
Distributed measurement	Isolated plastic case recognized according to		
system	UL94-V0 UL / EN 61010 - 1 certified		

Specification	
Accuracy	Class 0.5S / 1.0
Output Terminals	2 X M3-Screw, with Terminals cover
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	3.0V0-P
Insulation Category	CAT II or CAT III 600VAC

Current Transformer Versions

How to Order / Model Reference

eg JS17S-000/333mV

Model JS17S

Primary Current

Select code from ratio table

Secondary Voltage

333mV 333mV

How to Order / Model Reference

eg JS24S-000/333mV

Model JS24S

Primary Current

Select code from ratio table

Secondary Voltage

333mV 333mV

How to Order / Model Reference

eg JS36S-000/333mV

Model JS36S

Primary Current

Select code from ratio table

Secondary Voltage

333mV 333mV

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.2S		cl. 0.5S		
	cl. 0.3	cl. 0.6	cl. 1	cl. 1.2	
200	0.02				200

333mV Secondary

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.2S		cl. 0.5S		
	cl. 0.3	cl. 0.6	cl. 1	cl. 1.2	
250	0.03				250
300	0.03				300

333mV Secondary

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.2S		cl. 0.5S		
	cl. 0.3	cl. 0.6	cl. 1	cl. 1.2	
300	0.05				300
400	0.07				400
500	0.06				500
600	0.07				600

333mV Secondary

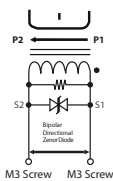
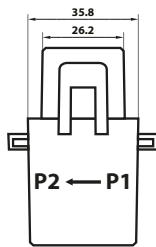
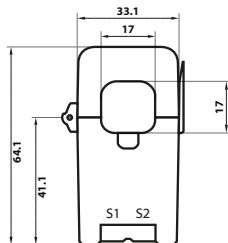
Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

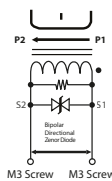
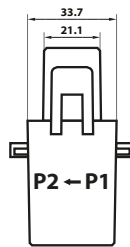
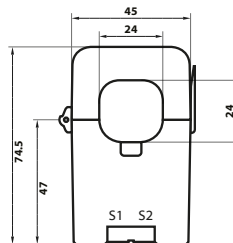
Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

Dimensions

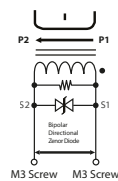
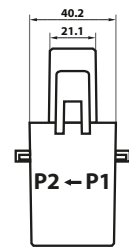
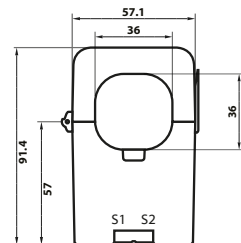
JS17S-XXX-333mV



JS24S-XXX-333mV



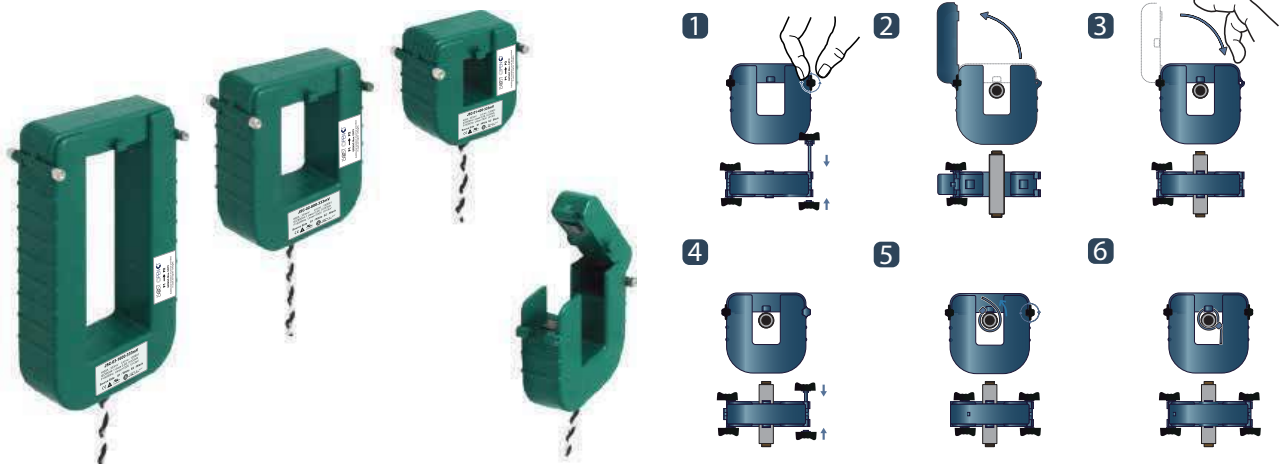
JS36S-XXX-333mV



SPLIT-CORE CURRENT TRANSFORMER JSC-XX-333mV AC



JSC series of split-core current transformer offers 333mV AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JSC series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Power meter	High quality comprehensive measurement	Faster installation	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Additionally, CTs are deliverable with customized output lead cable length.
Switchgear	Available in a wide range of transformer ratings	Cost effective	
Distributed measurement systems	Accuracy up to Class 0.5S	Long product life	
General Sets			
Control panels			

Specification	
Accuracy	IEC Class 0.5S / ANSI Class 0.6
Leads	18AWG, 600V AC
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1 & ANSI C57.13
Operating Temperature Range	-20°C to 60°C
Relative Humidity	0-90% non-condensing
Test Voltage	3kV AC for 1minute
Frequency Range	50/60Hz
Protection Level	3.0V0-P
Insulation Category	CATIII 600V AC / PD2

Current Transformer Versions

How to Order / Model Reference

eg **J S C - 0 1 - 0 0 0 0 / 3 3 3 mV**

Model **J S C - 0 1**

Primary Current

Select code from CT table

Secondary Voltage

333mV AC

3 3 3 mV

Current Transformer Rated Values

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.25	cl. 0.55	cl. 1		
	cl. 0.3	cl. 0.6	cl. 1.2		
250	0.035				0250
400	0.035				0400

333mV AC Secondary

Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of I_n

How to Order / Model Reference

eg **J S C - 0 2 - 0 0 0 0 / 3 3 3 mV**

Model **J S C - 0 2**

Primary Current

Select code from CT table

Secondary Voltage

333mV AC

3 3 3 mV

Current Transformer Rated Values

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.25	cl. 0.55	cl. 1		
	cl. 0.3	cl. 0.6	cl. 1.2		
400	0.035				0400
600	0.035				0600
800	0.035				0800
1000	0.035				1000
1200	0.035				1200

333mV AC Secondary

Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of I_n

How to Order / Model Reference

eg **J S C - 0 3 - 0 0 0 0 / 3 3 3 mV**

Model **J S C - 0 3**

Primary Current

Select code from CT table

Secondary Voltage

333mV AC

3 3 3 mV

Current Transformer Rated Values

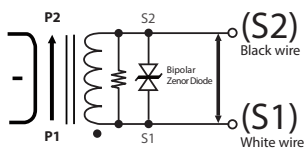
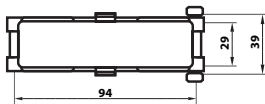
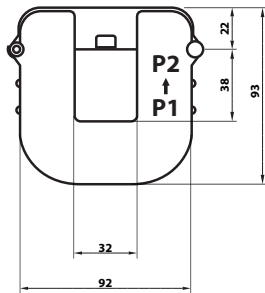
Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.25	cl. 0.55	cl. 1		
	cl. 0.3	cl. 0.6	cl. 1.2		
800	0.035				0800
1000	0.035				1000
1200	0.035				1200
1600	0.035				1600
2000	0.035				2000
2400	0.035				2400

333mV AC Secondary

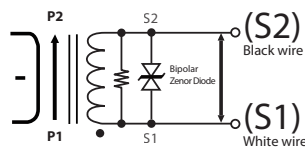
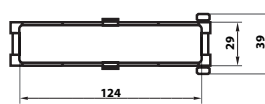
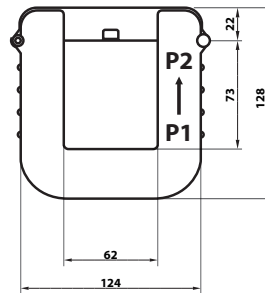
Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of I_n

Dimensions

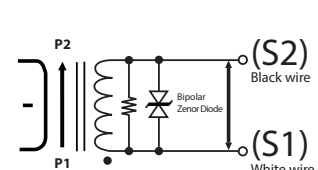
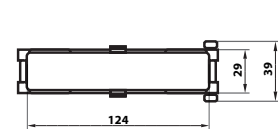
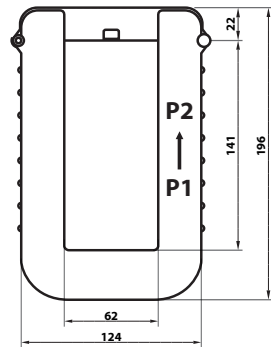
JSC-01-333mV



JSC-02-333mV



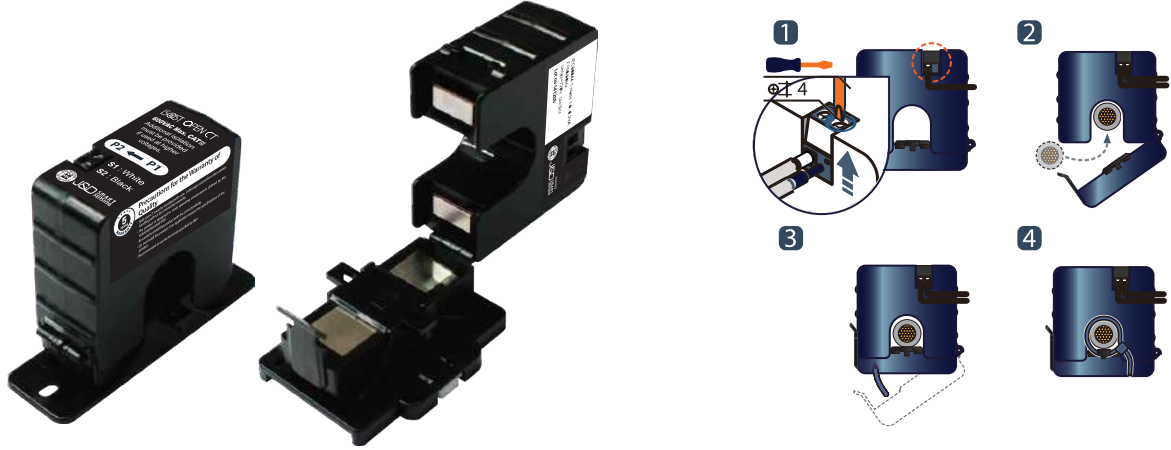
JSC-03-333mV



SPLIT-CORE CURRENT TRANSFORMER JM21X-XXX-100mA AC

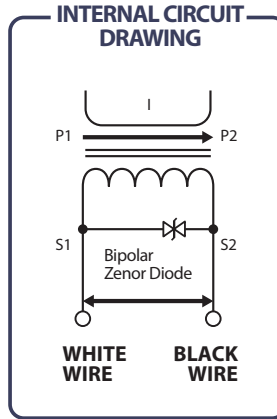
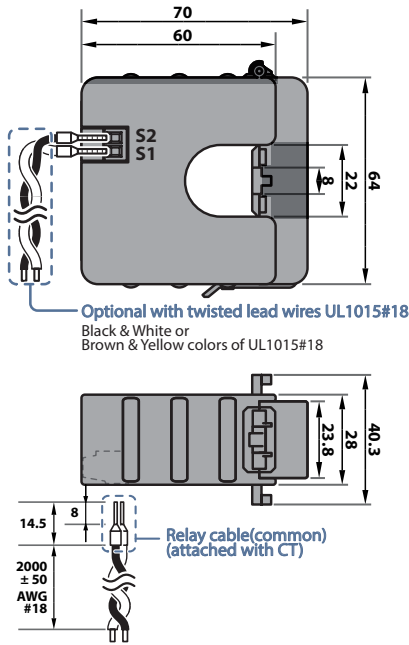


JM21X series of split-core current transformer offers 100mA AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JM21X series to meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact meter design and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.

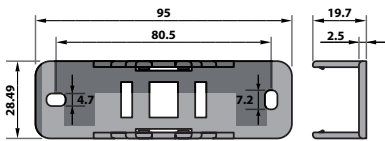


Applications	Features	Benefits	Notice
Power meter	Panel or DIN rail mountable, output-terminal, secure locking hinge, one-touch structure easily to install to existing equipment such as a power distribution board Isolated plastic case recognized according to UL94-V0	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Additionally, CTs are deliverable with customized output lead cable.
Switchgear		Simple Installation	
Distributed measurement systems		Over-Voltage protection circuit is installed.	
General Sets			
Control panels		UL / EN 61010-1 certified	

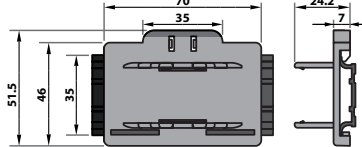
Specification	
Accuracy	IEC Class 0.5S, 1.0 / ANSI Class 0.6, 1.2
Output Terminals	Terminal Block(2P) - PART NUMBER : LM5.08/02/90 SW(black)
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1 & ANSI C57.13
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Latch/Unlatch	about 100 times
Test Voltage	3kV AC for 1minute
Frequency Range	50/60Hz
Protection Level	5.1V0-P
Insulation Category	CATIII 600V AC / PD2



• PANEL MOUNT

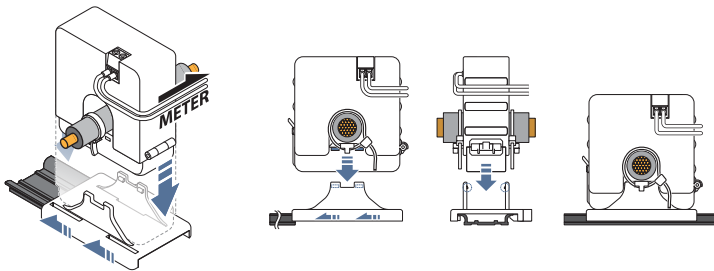


• DIN RAIL MOUNT



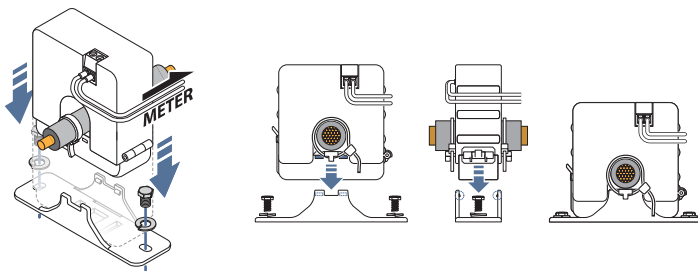
DIN RAIL MOUNTING

Mount the bracket on the rail and install current transformer



PANEL MOUNTING

Tighten screws on the hole to mount bracket and install current transformer



How to Order / Model Reference

eg JM21X-000/100mA

Model JM 2 1 X

Primary Current

Select code from CT table

Secondary Current

100mA AC

100 mA

Current Transformer Rated Values

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.5S	cl. 1	cl. 3	cl. 2.4	
50		0.035			050
70		0.035			070
100	0.035	0.035			100
125	0.035	0.035			125
150	0.035	0.035			150
200	0.035	0.035			200
250	0.035	0.035			250
	(JM21N)	(JM21F)			
100mA AC Secondary					

Accuracy conforms to IEC /EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of In



Precautions for the Warranty of Quality

- Split-core CT must be handled with care. A damage caused from the careless handling will not be covered by warranty.
- The product is designed to meet operating environments defined by the industrial standard IP20.
- Be sure about the right Primary current direction and terminal allocation. Otherwise any power measurements result in wrong values!
- Do not install the product if an application exceed the specifications of the product.
- Recommended to use the terminals specified by J&D.



Check Point for the Accurate Measurement

- Protection circuit built in inside of the product for user safety. An additional external protection circuit can impact the characteristics.
- The product is designed for measuring sinusoidal 50/60Hz of primary current. Be aware that it is possible to occur the significant error if it is used to measure non-sinusoidal.
- Use Split-core CT with proper diameter to fit the conductor, otherwise it may cause the ratio error and the phase shift.
- Be careful to install Split-core CT without any pollutions on the splitting core surfaces. The pollutions such as moisture, dust and rust can cause metering errors. After removing the pollutions, recommended to use WD-40 or CRC5-56 on the core surfaces.
- Check whether the secondary leads is connected correctly or not. If the connection is not correctly, the secondary output could be lower than the expected one.



Remarks for the Customized Products

- Please provide the technical requirements for a technical evaluation.
- The color of housing is changeable upon the customer's requirements.
- The leads can be mounted on the terminals by J&D.
- A protective tailor-made housing is available.

SPLIT-CORE CURRENT TRANSFORMER JSXXS-100mA AC



JS series of split-core current transformer offers 100mA AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JS series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Power meter	PC housing, output-terminal, secure locking hinge, one-touch structure make easy to install to the existent equipments such as a power distribution boards.	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts.
Switchgear		Simple Installation	
Distributed measurement systems		Over-Voltage protection circuit is installed.	
General Sets		Isolated plastic case recognized according	
Control panels		to UL94-V0	
	UL / EN 61010-1 certified		Additionally, CTs are deliverable with customized output lead cable length.

Specification	
Accuracy	IEC Class 1.0 / ANSI Class 1.2
Output Terminals	2 X M3-Screw, with Terminals cover
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1 & ANSI C57.13
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Test Voltage	3kV AC for 1minute
Frequency Range	50/60Hz
Protection Level	3.0V0-P
Insulation Category	CATIII 600V AC / PD2

Current Transformer Versions

How to Order / Model Reference

eg JS17S-000/100mA

Model	JS17S
Primary Current	
Select code from CT table	
Secondary Current	100 mA

Current Transformer Rated Values

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.25	cl. 0.5S	cl. 1	
	cl. 0.3	cl. 0.6	cl. 1.2	
200			0.035	200

100mA AC Secondary

Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

How to Order / Model Reference

eg JS24S-000/100mA

Model	JS24S
Primary Current	
Select code from CT table	
Secondary Current	100 mA

Current Transformer Rated Values

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.25	cl. 0.5S	cl. 1	
	cl. 0.3	cl. 0.6	cl. 1.2	
250			0.035	250
300			0.035	300

100mA AC Secondary

Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

How to Order / Model Reference

eg JS36S-000/100mA

Model	JS36S
Primary Current	
Select code from CT table	
Secondary Current	100 mA

Current Transformer Rated Values

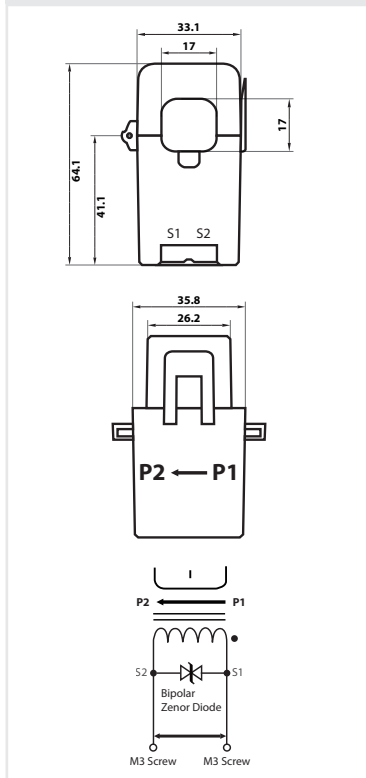
Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.25	cl. 0.5S	cl. 1	
	cl. 0.3	cl. 0.6	cl. 1.2	
300			0.035	300
400			0.035	400
500			0.035	500
600			0.035	600

100mA AC Secondary

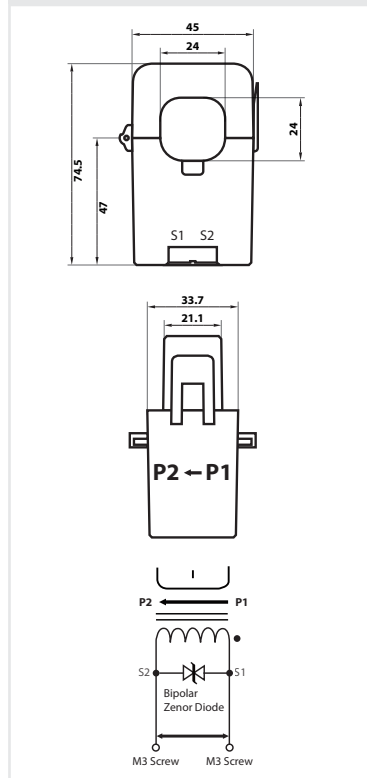
Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

Dimensions

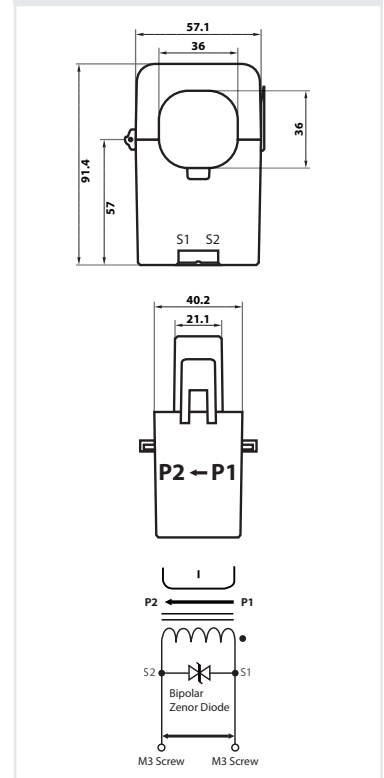
JS17S-000/100mA



JS24S-000/100mA



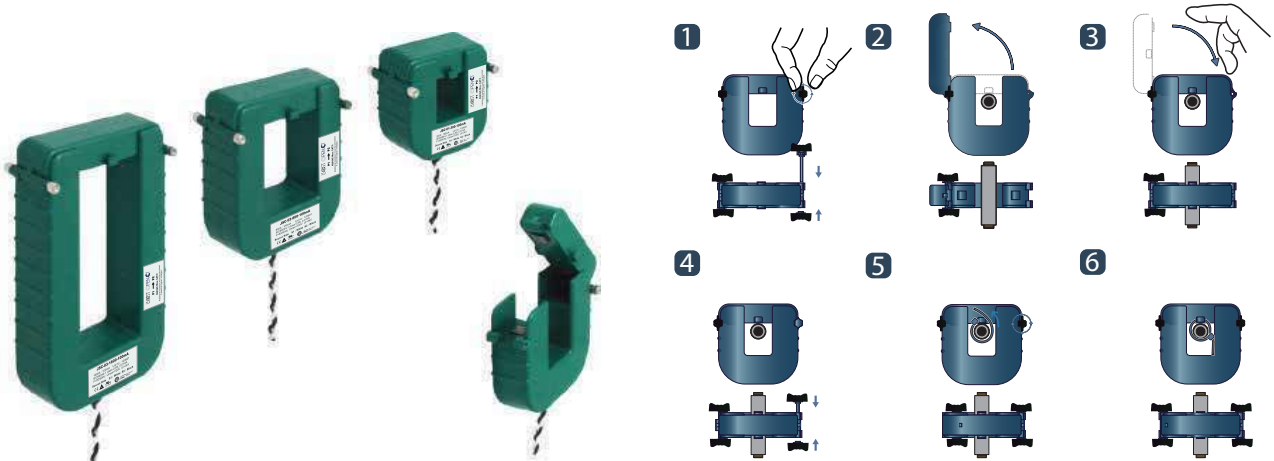
JS36S-000/100mA



SPLIT-CORE CURRENT TRANSFORMER JSC-XX-100mA AC



JSC series of split-core current transformer offers 100mA AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JSC series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Power meter	High quality comprehensive measurement	Faster installation	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Additionally, CTs are deliverable with customized output lead cable length.
Switchgear	Available in a wide range of transformer ratings	Cost effective	
Distributed measurement systems	Accuracy up to Class 0.5S	Long product life	
General Sets			
Control panels			

Specification	
Accuracy	IEC Class 0.5S / ANSI Class 0.6
Leads	18AWG, 600V AC
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1 & ANSI C57.13
Operating Temperature Range	-20°C to 60°C
Relative Humidity	0-90% non-condensing
Test Voltage	3kV AC for 1minute
Frequency Range	50/60Hz
Protection Level	3.0V0-P
Insulation Category	CATIII 600V AC / PD2

Current Transformer Versions

How to Order / Model Reference

eg **J J S C - 0 1 - 0 0 0 0 / 1 0 0 m A**

Model **J J S C - 0 1**

Primary Current

Select code from CT table

Secondary Current

100mA AC **1 0 0 mA**

How to Order / Model Reference

eg **J J S C - 0 2 - 0 0 0 0 / 1 0 0 m A**

Model **J J S C - 0 2**

Primary Current

Select code from CT table

Secondary Current

100mA AC **1 0 0 mA**

How to Order / Model Reference

eg **J J S C - 0 3 - 0 0 0 0 / 1 0 0 m A**

Model **J J S C - 0 3**

Primary Current

Select code from CT table

Secondary Current

100mA AC **1 0 0 mA**

Current Transformer Rated Values

Primary Current (A)	Metering Burden (VA)			Code
	cl. 0.25	cl. 0.5S	cl. 1	
	cl. 0.3	cl. 0.6	cl. 1.2	
250		0.035		0250
400		0.035		0400

100mA AC Secondary

Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of I_n

Current Transformer Rated Values

Primary Current (A)	Metering Burden (VA)			Code
	cl. 0.25	cl. 0.5S	cl. 1	
	cl. 0.3	cl. 0.6	cl. 1.2	
400		0.035		0400
600		0.035		0600
800		0.035		0800

100mA AC Secondary

Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of I_n

Current Transformer Rated Values

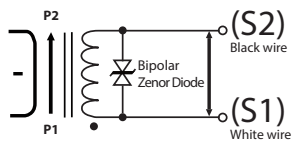
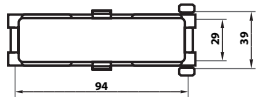
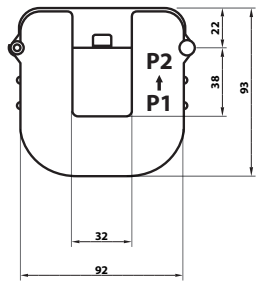
Primary Current (A)	Metering Burden (VA)			Code
	cl. 0.25	cl. 0.5S	cl. 1	
	cl. 0.3	cl. 0.6	cl. 1.2	
800		0.035		0800
1000		0.035		1000
1200		0.035		1200

100mA AC Secondary

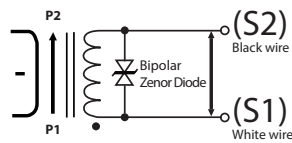
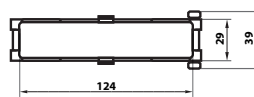
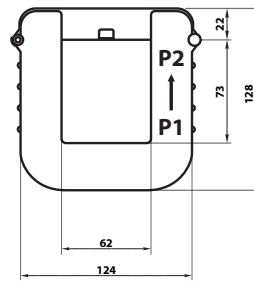
Accuracy conforms to IEC/EN61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of I_n

Dimensions

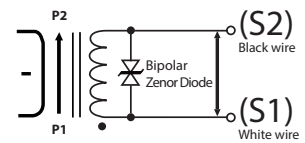
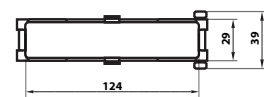
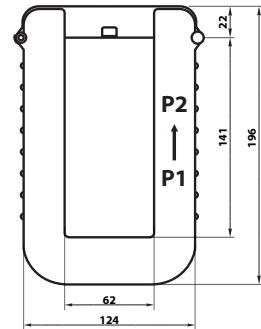
JSC-01-100mA



JSC-02-100mA



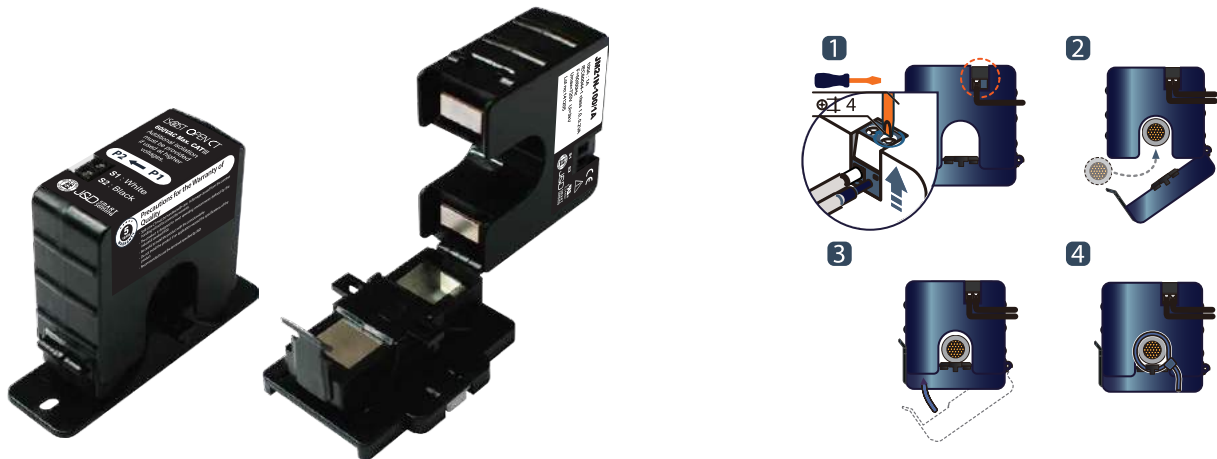
JSC-03-100mA



SPLIT-CORE CURRENT TRANSFORMER JM21X-XXX-1A AC



JM21N series of split-core current transformer offers 1A at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JM21N series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.

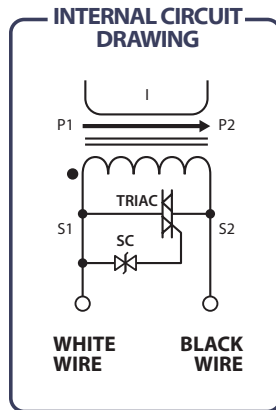
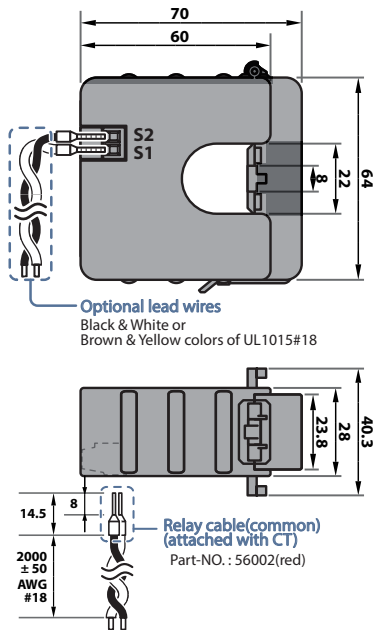


Applications	Features	Benefits	Notice
Power meter	Panel or DIN rail mountable, output-terminal,	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Additionally, CTs are deliverable with customized output lead cable.
Switchgear	secure locking hinge, one-touch structure	Simple Installation	
Distributed measurement systems	easily to install to existing equipment such as a power distribution board Isolated plastic case	Over-Voltage protection circuit is installed.	
General Sets	recognized according to UL94-V0		
Control panels	UL / EN 61010-1 certified		

Specification

Accuracy	IEC Class 0.5S, 1.0 / ANSI Class 0.6, 1.2
Output Terminals	Terminal Block(2P) - PART NUMBER : LM5.08/02/90 SW(black)
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2, IEEE/ANSI C57.13 & IEC61010-1
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Latch/Unlatch	about 100 times
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	Bipolar 6.5Vp
Insulation Category	CAT II or CATIII 600VAC

Current Transformer Versions / Dimensions



How to Order / Model Reference

eg **JM21N-000/0A**

Model	J M 2 1 N
Primary Current	Select code from ratio table
Secondary Current	1 A

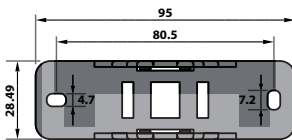
Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.5S	cl. 1	cl. 3	cl. 3	
100		0.2			100
125		0.2			125
150			0.2		150
200	0.2				200
250	0.2				250

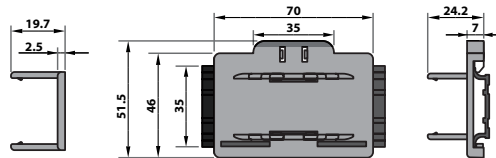
1A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

• PANEL MOUNT

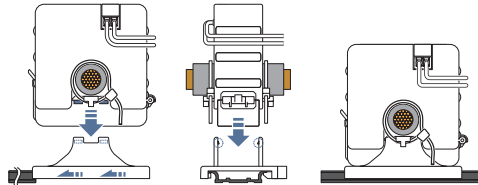
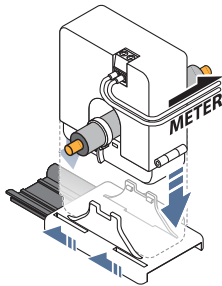


• DIN RAIL MOUNT



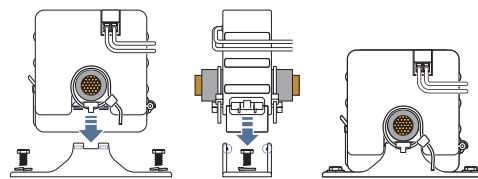
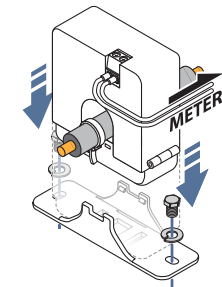
DIN RAIL MOUNTING

Mount the bracket on the rail and install current transformer



PANEL MOUNTING

Tighten screws on the hole to mount bracket and install current transformer



Precautions for the Warranty of Quality

- Split-core CT must be handled with care. A damage caused from the careless handling will not be covered by warranty.
- The product is designed to meet operating environments defined by the industrial standard IP20.
- Be careful to install the product with the correct polarity.
- Do not install the product if an application exceed the specifications of the product.
- Recommended to use the terminals specified by J&D.



Check Point for the Accurate Measurement

- Protection circuit built in inside of the product for user safety. An additional external protection circuit would be impacted on the feature.
- The product is designed for measuring sinusoidal 50/60Hz of primary current. Be aware that it is possible to occur the significant error if it is used to measure non-sinusoidal.
- Use Split-core CT with proper diameter to fit the conductor, otherwise it may cause the ratio error and the phase shift.
- Be careful to install Split-core CT without any pollutions on the core surfaces. The pollutions such as moisture, dust and rusty can be caused the error. After removing the pollutions, recommended to use WD-40 or CRC5-56 on the core surfaces.
- Check whether the secondary leads is connected correctly or not. If the connection is not correctly, the secondary output could be lower than the expected one.



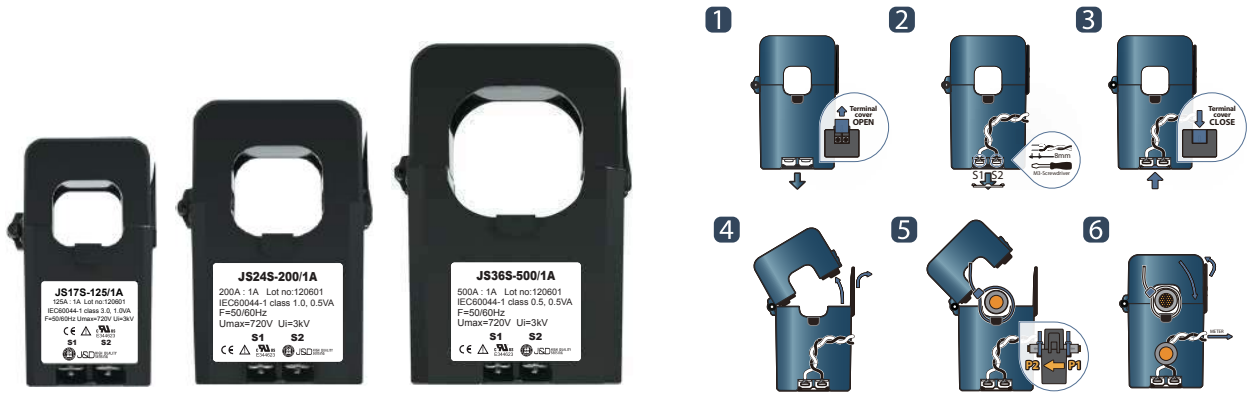
Remarks for the Customized Products

- Please provide the technical requirements for a technical evaluation.
- The color of housing is changeable upon the customer's requirements.
- The leads can be mounted on the terminals by J&D.
- A protective tailor-made housing is available.

SPLIT-CORE CURRENT TRANSFORMER JSXXS-XXX-1A AC



JS series of split-core current transformer offers 1A AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JS series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Power meter	PC housing, output-terminal, secure locking	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side.
Switchgear	hinge, one-touch structure make easy to	Simple Installation	Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts.
Distributed measurement systems	install to the existent equipments such as a power distribution boards.	Over-Voltage protection circuit is installed.	Additionally, CTs are deliverable with customized output lead cable length.
General Sets	Isolated plastic case recognized according		
Control panels	to UL94-V0		
	UL / EN 61010-1 certified		

Specification	
Accuracy	Class 0.5S / 1.0 / 3.0
Output Terminals	2 X M3-Screw, with Terminals cover
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	Bipolar 6.5Vp
Insulation Category	CAT II or CAT III 600VAC

Current Transformer Versions

How to Order / Model Reference

eg JS17S-000/1A

Model	JS17S
Primary Current	
Select code from ratio table	
Secondary Current	1A

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
	cl. 0.6	cl. 1.2	cl. 2.4	
60		0.2		060
75		0.5		075
100		0.5		100
125		1.0		125
150		1.0		150
200		1.0		200

1A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

How to Order / Model Reference

eg JS24S-000/1A

Model	JS24S
Primary Current	
Select code from ratio table	
Secondary Current	1A

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
	cl. 0.6	cl. 1.2	cl. 2.4	
100			1.0	100
125			1.0	125
150			1.0	150
200			1.0	200
250		1.0		250
300		1.5		300

1A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

How to Order / Model Reference

eg JS36S-000/1A

Model	JS36S
Primary Current	
Select code from ratio table	
Secondary Current	1A

Current Transformer Ratios

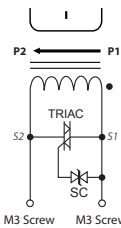
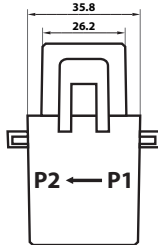
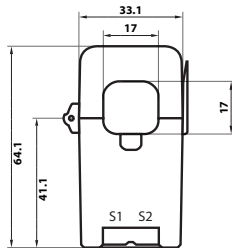
Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
	cl. 0.6	cl. 1.2	cl. 2.4	
300		1.5		300
400	0.5			400
500	0.5			500
600	0.5			600

1A Secondary

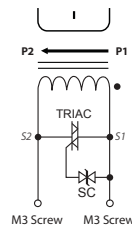
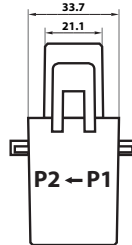
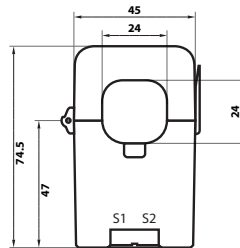
Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

Dimensions

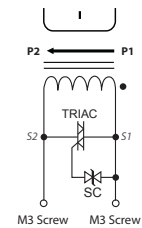
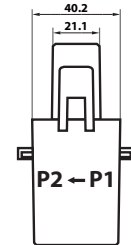
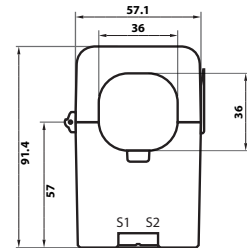
JS17S-000/1A



JS24S-000/1A



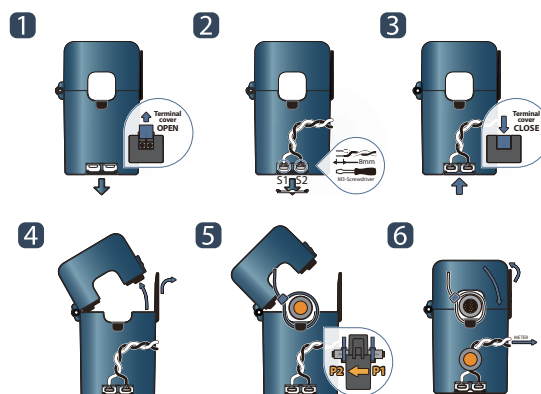
JS36S-000/1A



SPLIT-CORE CURRENT TRANSFORMER

JS18S-XXX-1A AC

JS series of split-core current transformer offers 1A AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JS series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.

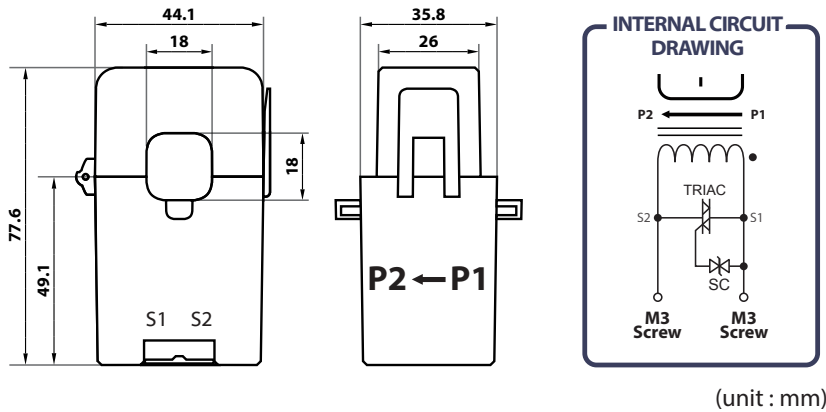


Applications	Features	Benefits	Notice
Power meter	PC housing, output-terminal, secure locking	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side
Switchgear	hinge, one-touch structure make easy to	Simple Installation	Do not use any other chemicals except WD-40 or CRC5-56 on housing or any other parts
Distributed measurement systems	install to the existent equipments such as a power distribution boards.	Over-Voltage protection circuit is installed.	Customizing output lead wire
General Sets	Isolated plastic case recognized according		
Control panels	to UL94-V0		
	UL / EN 61010-1 certified		

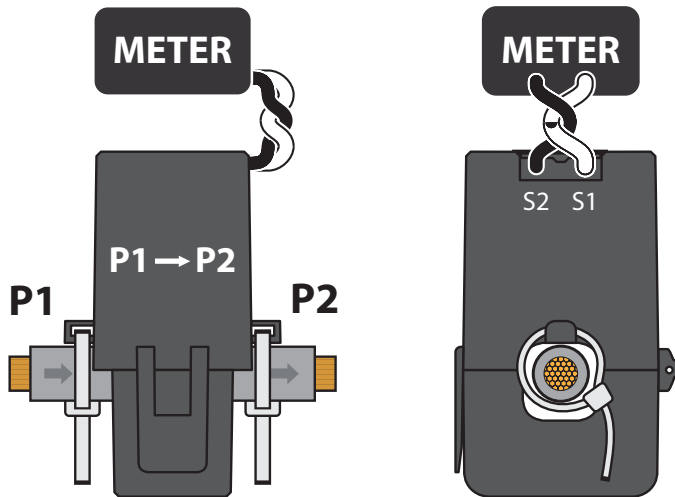
Specification

Accuracy	Class 1.0 / 3.0
Output Terminals	2 X M3-Screw, with Terminals cover
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Latch/Unlatch	about 100 times
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	Bipolar 6.5Vp
Insulation Category	CAT II or CAT III 600VAC

Current Transformer Versions / Dimensions



>>> Installation



>>> The Sample of customized product

JS18S + Optional Leadwire

- Standard length of lead wire is 2M, but the length may be altered according to the customer's needs.
- The lead wire connections are protected by a terminal cover which is secured with a sticker label.



How to Order / Model Reference

eg JS18S-000/0A

Model	JS18S
Primary Current	Select code from ratio table
Secondary Current	1A

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.5S	cl. 1	cl. 3	cl. 2.4	
50			0.2		050
60			0.2		060
75			0.2		075
100		0.2			100
125		0.2			125
150		0.2			150
200		0.2			200

1A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

5 YEARS WARRANTY Precautions for the Warranty of Quality

- Split-core CT must be handled with care. A damage caused from the careless handling will not be covered by warranty.
- The product is designed to meet operating environments defined by the industrial standard IP20.
- Be careful to install the product with the correct polarity.
- Do not install the product if an application exceed the specifications of the product.
- Recommended to use the terminals specified by J&D.

ELECTRICAL PROPERTIES Check Point for the Accurate Measurement

- Protection circuit built in inside of the product for user safety. An additional external protection circuit would be impacted on the feature.
- The product is designed for measuring sinusoidal 50/60Hz of primary current. Be aware that it is possible to occur the significant error if it is used to measure non-sinusoidal.
- Use Split-core CT with proper diameter to fit the conductor, otherwise it may cause the ratio error and the phase shift.
- Be careful to install Split-core CT without any pollutions on the core surfaces. The pollutions such as moisture, dust and rusty can be caused the error. After removing the pollutions, recommended to use WD-40 or CRC5-56 on the core surfaces.
- Check whether the secondary leads is connected correctly or not. If the connection is not correctly, the secondary output could be lower than the expected one.

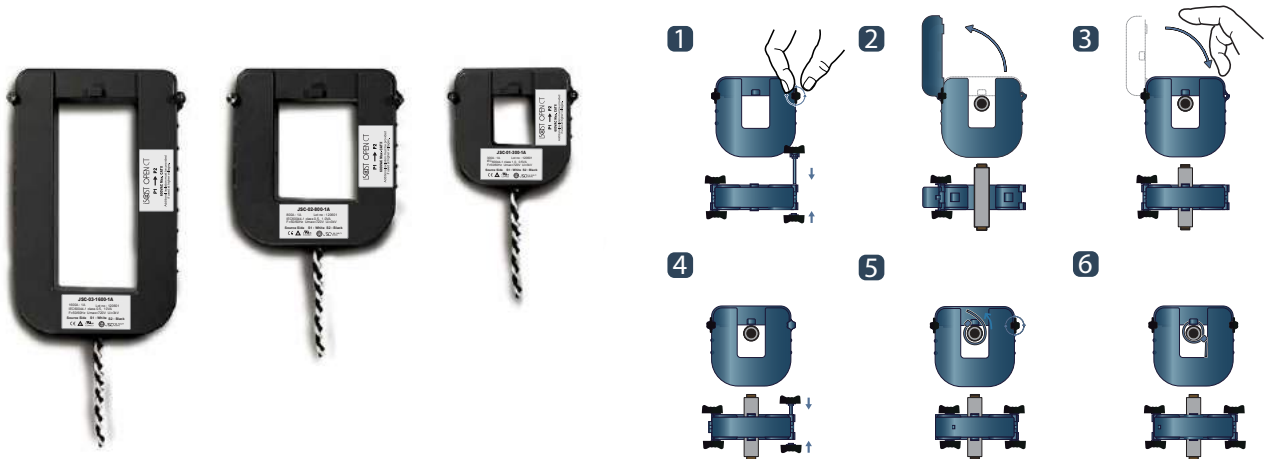
ODM Remarks for the Customized Products

- Please provide the technical requirements for a technical evaluation.
- The color of housing is changeable upon the customer's requirements.
- The leads can be mounted on the terminals by J&D.
- A protective tailor-made housing is available.

SPLIT-CORE CURRENT TRANSFORMER JSC-XX-1A AC



JSC series of split-core current transformer offers 1A at secondary from sensed primary current for metering application. It can be used for power meter, distribution system, control panels, switchgear and other equipment. It is designed to install to live power line without disconnection as split-core compact type. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Power meter	High quality comprehensive measurement	Faster installation	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Customizing output lead wire
Switchgear	Available in a wide range of transformer ratings	Cost effective	
Distributed measurement systems	Accuracy up to Class 0.5S	Long product life	
General Sets			
Control panels			

Specification	
Accuracy	Class 0.5S / 1.0 / 3.0
Leads	18AWG, 600VAC
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1
Operating Temperature Range	-20°C to 60°C
Relative Humidity	0-90% non-condensing
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	Bipolar 6.5Vp
Insulation Category	CAT II or CAT III 600VAC

Current Transformer Versions

How to Order / Model Reference

eg **JSC-01-0000/1A**

Model **JSC-01**

Primary Current
Select code from ratio table

Secondary Current
1A **1A**

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
100			0.5	0100
150			1.5	0150
200		0.5		0200
250		0.5		0250
300		0.5		0300
400	0.5			0400

1A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of In

How to Order / Model Reference

eg **JSC-02-0000/1A**

Model **JSC-02**

Primary Current
Select code from ratio table

Secondary Current
1A **1A**

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
400		1.0		0400
500		2.5		0500
600	1.0	5.0		0600
750	1.0	5.0		0750
800	1.0	5.0		0800
1000	2.5	10.0		1000

1A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of In

How to Order / Model Reference

eg **JSC-03-0000/1A**

Model **JSC-03**

Primary Current
Select code from ratio table

Secondary Current
1A **1A**

Current Transformer Ratios

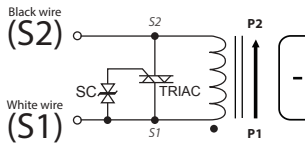
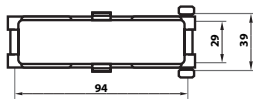
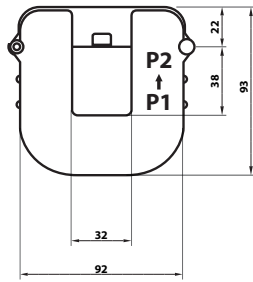
Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
800	1.0	5.0		0800
1000	1.0	5.0		1000
1200	5.0	10.0		1200
1250	5.0	10.0		1250
1500	10.0	20.0		1500
1600	10.0	20.0		1600
2000	10.0	20.0		2000
2400	10.0	20.0		2400

1A Secondary

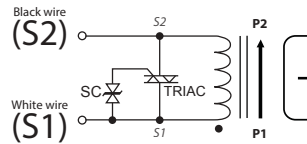
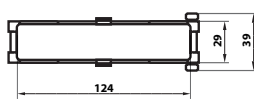
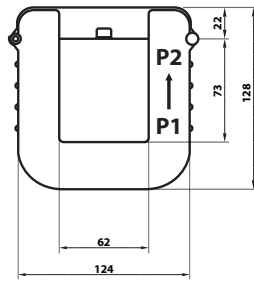
Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of In

Dimensions

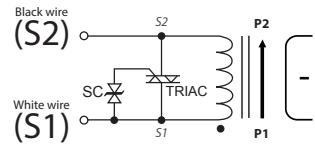
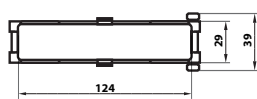
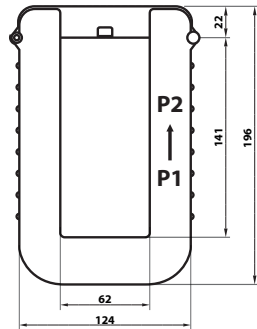
JSC-01-1A



JSC-02-1A



JSC-03-1A

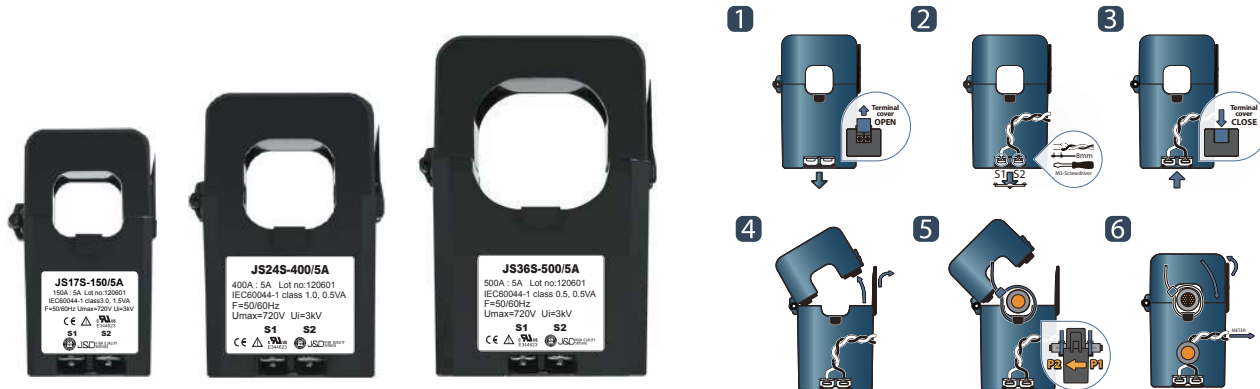


SPLIT-CORE CURRENT TRANSFORMER

JSXXS-XXX-5A AC



JS series of split-core current transformer offers 5A at secondary from sensed primary current for metering application. It can be used for power meter, distribution system, control panels, switchgear and other equipment. It is designed to install to live power line without disconnection as split-core compact type. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Power meter	PC housing, output-terminal, secure locking	Small-size, light-weight	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side.
Switchgear	hinge, one-touch structure make easy to	Simple Installation	Do not use any other chemicals except WD-40 or
Distributed measurement systems	install to the existent equipments such as a power distribution boards.	Over-Voltage protection circuit is installed.	CRC5-56 on housing or any parts.
General Sets	Isolated plastic case recognized according		Customizing output lead wire
Control panels	to UL94-V0		
	UL / EN 61010-1 certified		

Specification	
Accuracy	Class 0.5S / 1.0 / 3.0
Output Terminals	2 X M3-Screw, with Terminals cover
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	Bipolar 6.5Vp
Insulation Category	CAT II or CAT III 600VAC

Current Transformer Versions

How to Order / Model Reference

eg JS17S-000/0A

Model JS17S

Primary Current

Select code from ratio table

Secondary Current

5A 5A

How to Order / Model Reference

eg JS24S-000/0A

Model JS24S

Primary Current

Select code from ratio table

Secondary Current

5A 5A

How to Order / Model Reference

eg JS36S-000/0A

Model JS36S

Primary Current

Select code from ratio table

Secondary Current

5A 5A

Current Transformer Ratios

Primary Current (A)	Metering Burden (VA)				Code
	cl. 0.5S	cl. 1	cl. 3	Code	
	cl. 0.6	cl. 1.2	cl. 2.4		
150			0.2		150

5A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

Current Transformer Ratios

Primary Current (A)	Metering Burden (VA)				Code
	cl. 0.5S	cl. 1	cl. 3	Code	
	cl. 0.6	cl. 1.2	cl. 2.4		
100			1.5		100
150			1.5		150
200			1.5		200
250			1.5		250
300		0.5			300
400		0.5			400

5A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

Current Transformer Ratios

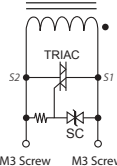
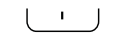
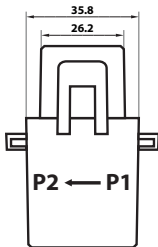
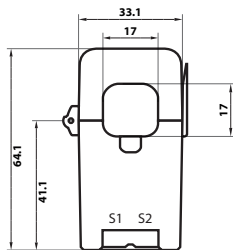
Primary Current (A)	Metering Burden (VA)				Code
	cl. 0.5S	cl. 1	cl. 3	Code	
	cl. 0.6	cl. 1.2	cl. 2.4		
200			2.5		200
250		0.5			250
300		0.5			300
400	0.5	2.5			400
500	0.5	2.5			500
600	0.5	5.0			600

5A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

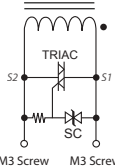
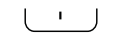
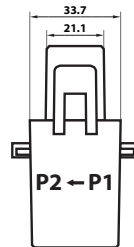
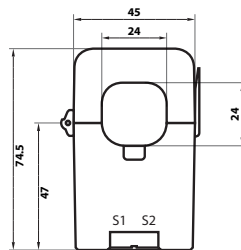
Dimensions

JS17S-000/5A



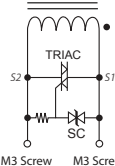
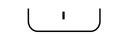
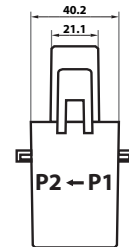
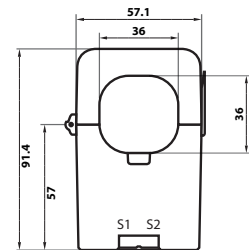
M3 Screw M3 Screw

JS24S-000/5A



M3 Screw M3 Screw

JS36S-000/5A

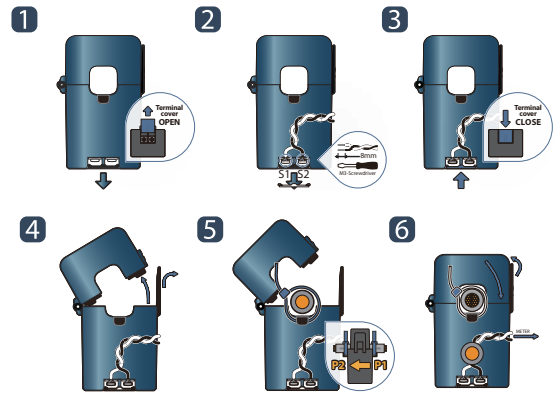


M3 Screw M3 Screw

SPLIT-CORE CURRENT TRANSFORMER JS18S-XXX-5A AC



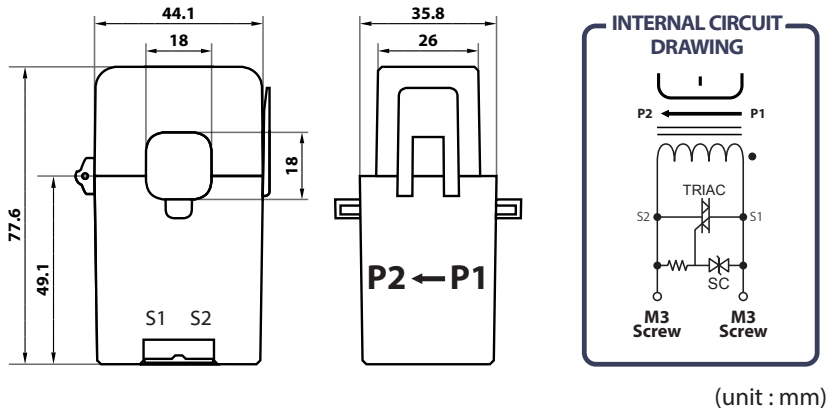
JS series of split-core current transformer offers 5A AC at secondary from sensed primary current. Without using secondary CT inside of meter, users directly connect JS series to a meter for high accuracy metering application. It enables one meter to be adopted for various current rating by only changing primary CT so it makes compact design meter and reduces developing cost. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



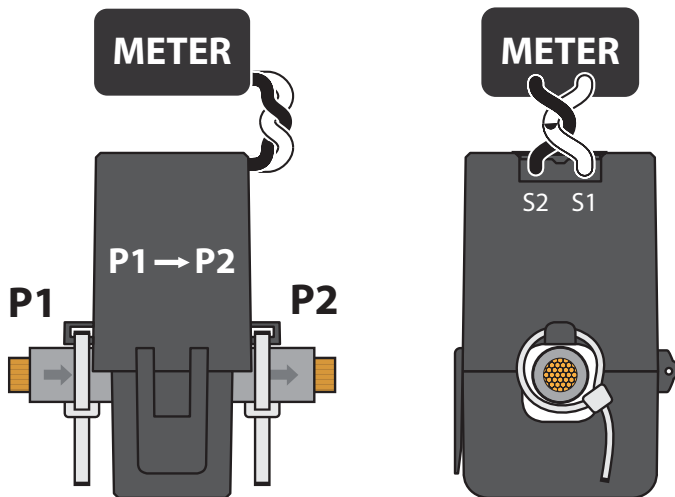
Applications	Features	Benefits	Notice
Power meter	PC housing, output-terminal, secure locking	Small-size, light-weight	Core contact surface is waterproof, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side
Switchgear	hinge, one-touch structure make easy to	Simple Installation	Do not use any other chemicals except WD-40 or CRC5-56 on housing or any other parts
Distributed measurement systems	install to the existent equipments such as a power distribution boards.	Over-Voltage protection circuit is installed.	Customizing output lead wire
General Sets	Isolated plastic case recognized according		
Control panels	to UL94-V0		
	UL / EN 61010-1 certified		

Specification	
Accuracy	Class 1.0 / 3.0
Output Terminals	2 X M3-Screw, with Terminals cover
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1
Operating Temperature Range	-20°C to 55°C
Relative Humidity	0-85% non-condensing
Latch/Unlatch	about 100 times
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	Bipolar 6.5Vp
Insulation Category	CAT II or CAT III 600VAC

Current Transformer Versions / Dimensions



>>> Installation



>>> The Sample of customized product

JS18S + Optional Leadwire

- Standard length of lead wire is 2M, but the length may be altered according to the customer's needs.
- The lead wire connections are protected by a terminal cover which is secured with a sticker label.



How to Order / Model Reference

eg JS18S-000/0A

Model	JS18S
Primary Current	Select code from ratio table
Secondary Current	5A

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)				Code
	cl. 0.5S	cl. 1	cl. 3		
50			1.0		50
75			1.0		75
100			1.0		100
150		1.0			125
200		1.0			150
250		1.0			200

5A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120% of In

5 YEARS WARRANTY Precautions for the Warranty of Quality

- Split-core CT must be handled with care. A damage caused from the careless handling will not be covered by warranty.
- The product is designed to meet operating environments defined by the industrial standard IP20.
- Be careful to install the product with the correct polarity.
- Do not install the product if an application exceed the specifications of the product.
- Recommended to use the terminals specified by J&D.

ELECTRICAL PROPERTIES Check Point for the Accurate Measurement

- Protection circuit built in inside of the product for user safety. An additional external protection circuit would be impacted on the feature.
- The product is designed for measuring sinusoidal 50/60Hz of primary current. Be aware that it is possible to occur the significant error if it is used to measure non-sinusoidal.
- Use Split-core CT with proper diameter to fit the conductor, otherwise it may cause the ratio error and the phase shift.
- Be careful to install Split-core CT without any pollutions on the core surfaces. The pollutions such as moisture, dust and rusty can be caused the error. After removing the pollutions, recommended to use WD-40 or CRC5-56 on the core surfaces.
- Check whether the secondary leads is connected correctly or not. If the connection is not correctly, the secondary output could be lower than the expected one.

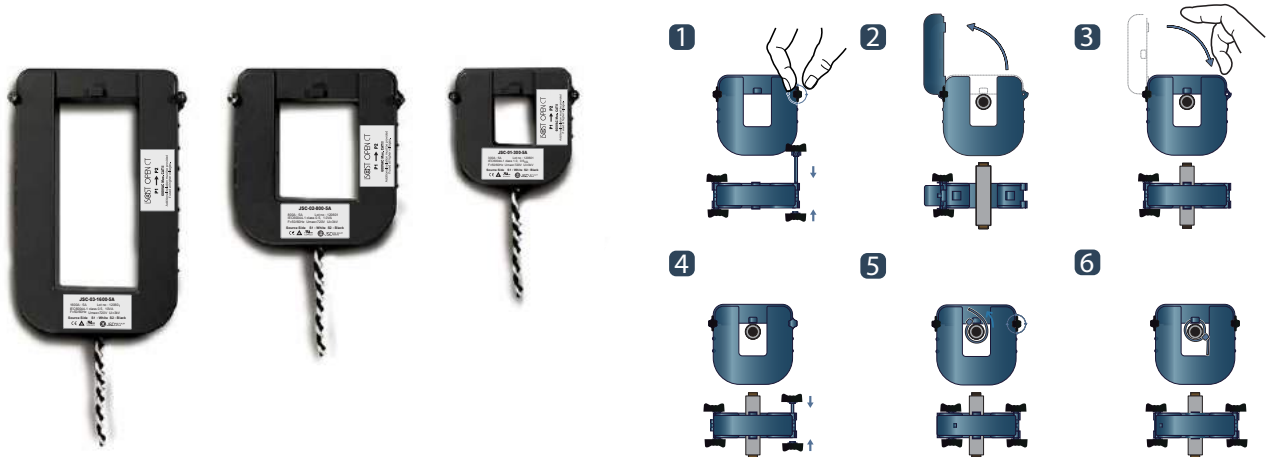
ODM ON REQUEST Remarks for the Customized Products

- Please provide the technical requirements for a technical evaluation.
- The color of housing is changeable upon the customer's requirements.
- The leads can be mounted on the terminals by J&D.
- A protective tailor-made housing is available.

SPLIT-CORE CURRENT TRANSFORMER JSC-XX-5A AC



JSC series of split-core current transformer offers 5A at secondary from sensed primary current for metering application. It can be used for power meter, distribution system, control panels, switchgear and other equipment. It is designed to install to live power line without disconnection as split-core compact type. Also, over-voltage protection circuit is included to offer safe, fast and cost effective installation.



Applications	Features	Benefits	Notice
Power meter	High quality comprehensive measurement	Faster installation	Core contact surface is waterproofed, however if it gets rusty, you could reuse after removing rusts with spraying WD-40 or CRC5-56 on the rusted side. Do not use any other chemicals except WD-40 or CRC5-56 on housing or any parts. Customizing output lead wire
Switchgear	Available in a wide range of transformer ratings	Cost effective	
Distributed measurement systems	Accuracy up to Class 0.5S	Long product life	
General Sets			
Control panels			

Specification	
Accuracy	Class 0.5S / 1.0 / 3.0
Leads	18AWG, 600VAC
System Voltage	720V(0.72kV)
Overload withstand	1.2 times rated current continuously
Compliant with	IEC/EN61869-2 & IEC61010-1
Operating Temperature Range	-20°C to 60°C
Relative Humidity	0-90% non-condensing
Test Voltage	3kV for 1minute
Frequency Range	50/60Hz
Protection Level	Bipolar 6.5Vp
Insulation Category	CAT II or CAT III 600VAC

Current Transformer Versions

How to Order / Model Reference

eg **JSC-01-0000/5A**

Model **JSC-01**

Primary Current

Select code from ratio table

Secondary Current

5A

5A

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
	cl. 0.6	cl. 1.2	cl. 2.4	
100		0.5		0100
150			1.5	0150
200			1.5	0200
250		0.5		0250
300		0.5		0300
400		0.5		0400

5A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

How to Order / Model Reference

eg **JSC-02-0000/5A**

Model **JSC-02**

Primary Current

Select code from ratio table

Secondary Current

5A

5A

Current Transformer Ratios

Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
	cl. 0.6	cl. 1.2	cl. 2.4	
400		1.0		0400
500		2.5		0500
600	1.0	5.0		0600
750	1.0	5.0		0750
800	1.0	5.0		0800
1000	2.5	10.0		1000

5A Secondary

Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

How to Order / Model Reference

eg **JSC-03-0000/5A**

Model **JSC-03**

Primary Current

Select code from ratio table

Secondary Current

5A

5A

Current Transformer Ratios

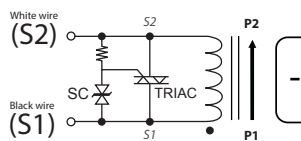
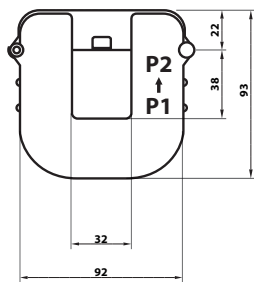
Primary Current (A)	Metering Burden(VA)			Code
	cl. 0.5S	cl. 1	cl. 3	
	cl. 0.6	cl. 1.2	cl. 2.4	
800	1.0	5.0		0800
1000	1.0	5.0		1000
1200	5.0	10.0		1200
1250	5.0	10.0		1250
1500	10.0	20.0		1500
1600	10.0	20.0		1600
2000	10.0	20.0		2000
2400	10.0	20.0		2400

5A Secondary

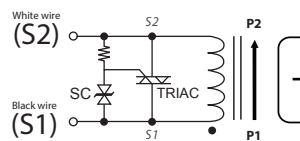
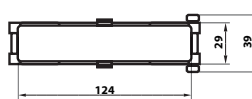
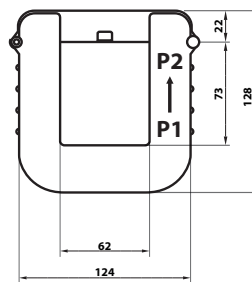
Accuracy conforms to IEC61869-2 & IEEE/ANSI C57.13 meets the measuring range from 1 to 120 % of I_n

Dimensions

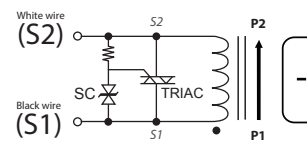
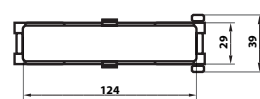
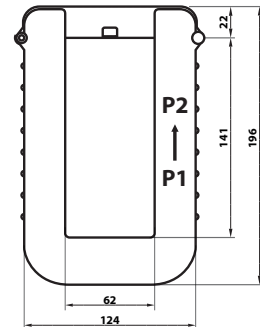
JSC-01-5A



JSC-02-5A



JSC-03-5A



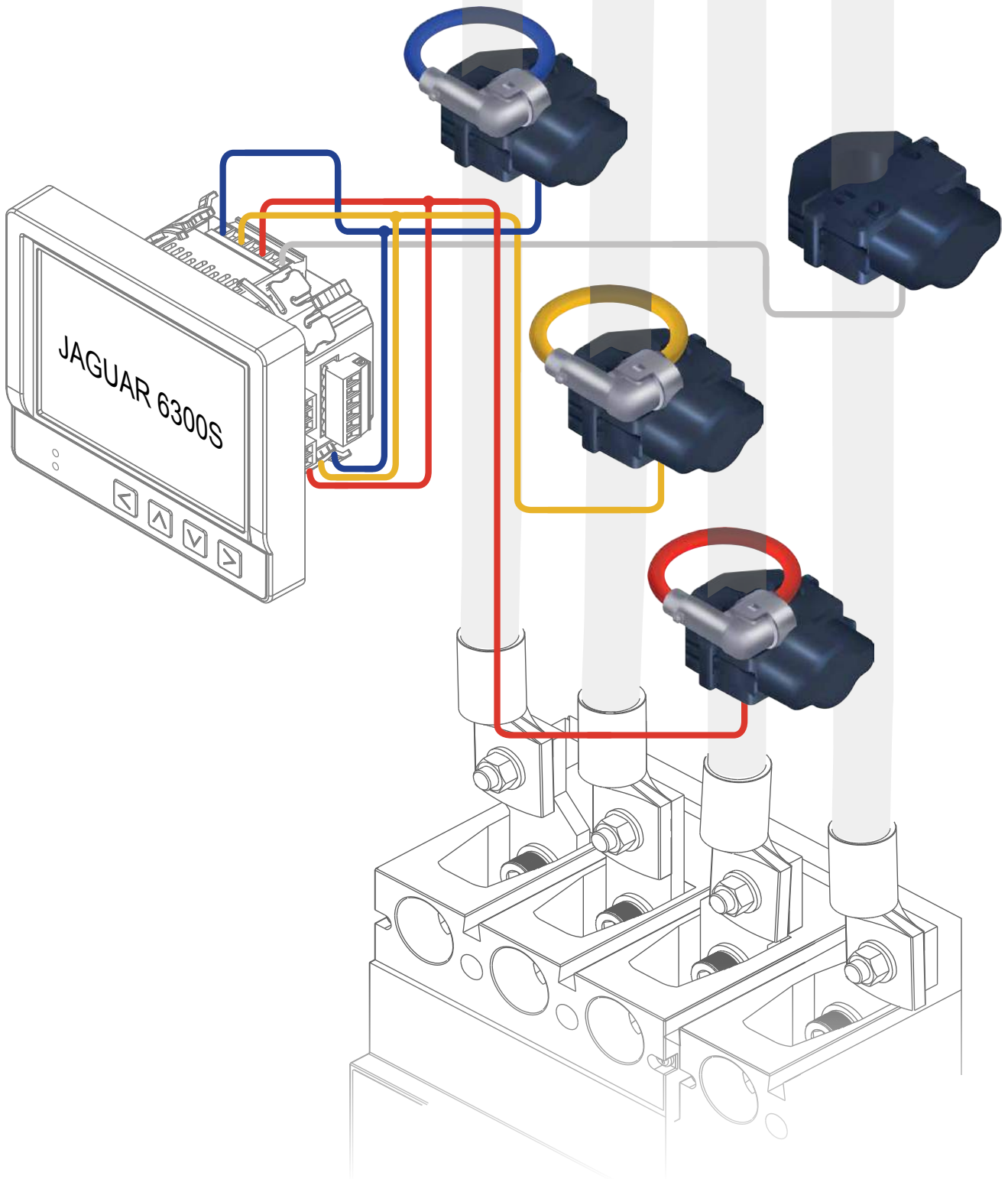
PT ACCESSORY

Busbar type / Rail type / Wire type

Easy Voltage Tap for busbar	Fused voltage branch on for rail mounting	Easy Voltage Tap for wires																																
																																		
<p>Technical specifications</p> <p>Maximum voltage 690V Test voltage/spike 3kV/50Hz 6kV Max current 10A Isolation class E(Max. 120°C) Fuse type 5X25mm(with indicator) 10A SIBA DIN41565-2 Short circuit rating 70kA@400V/50Hz IP rating IP20 Ambient temperature -5...+40°C Temperature rise busbar Max. 75K</p> <p>Busbar connection Via Allen key bolt M8 Allen key size Number 6 Busbar thickness Max. 15mm/Min. 4mm Housing Polyamide(PA6.6) Material terminal Nickel plated brass</p> <p>Maximum temperature of the busbar: 120°C (Sum of the busbar temperature rise and the ambient temperature) KEMA certified, IEC 60947-7-3</p>	<p>Technical specifications</p> <p>Location Indoor use Operating temp -10°C- +55°C Relative humidity 5% - 85%, non condensing Protection degree Ip20, basic insulation Suitable for copper bar conductors</p> <p>Application conditions IEC 60947-7-3:2009 Standard 400Vac Umax 3kV/50Hz Test voltage 6kV 1,2/50µs I_{max} 2A Voltage drop <500mV AC Fuse 2A, 450V, F, 70kA, 5X25mm,ceramic (SIBA Part. no. 7008913.2) Prim. connection M6(6mm) or M8(8mm) Sec. connection 1.5.4mm² torque max. 2.0Nm</p>	<p>Technical specifications</p> <p>CE Directive Low voltage directive 2006/95/EEC Standard IEC 60998(clamp), IEC 60947(fuse)</p> <p>Standard IEC 60721-3-3:1996 Class 3K3 Operating temp +5°C - +55°C Relative humidity 5% - 85%, non condensing Operating height 0..2000m over NN Protection degree IP20, basic insulation Pollution degree 2 Measurement category CAT III</p> <p>Insulation material PVC or XLPE Wire diameter 3 - 5mm(2,5 - 6mm²) UAD6(n)-R Rigid wire(Solid, Stranded) UAD6(n)-F Flexible wire Umax 400Vac Test voltage 3kV / 50Hz Impulse voltage 6kV 1,2 / 50µs I_{max} 2A Voltage drop <500mVac Fuse(UAD6-R/F) 2A, 450V, F, 70kA, 5X25mm, ceramic(SIBA Part.no. 7008913.2) Sec. lead 1mm flexible, 50cm, end-sleeve Usability Multiple use, max. 24 times Torque 1.5 - 2.0Nm</p> <p>temperature -20°C - +70°C Relative humidity 5% - 85%, non condensing Weight 28 gram Dimensions diameter 23mm, height 59mm Material PA 6.6, UL94V2</p>																																
<p>Order specifications</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Model</th> <th>Connection</th> </tr> </thead> <tbody> <tr> <td>Fused phase terminal</td> <td>UAK4Z</td> <td>1,5 - 4mm²</td> </tr> <tr> <td>Phase terminal</td> <td>UAK16</td> <td>0 - 16mm²</td> </tr> <tr> <td>Neutral terminal</td> <td>UAK16N</td> <td>0 - 16mm²</td> </tr> </tbody> </table>	Description	Model	Connection	Fused phase terminal	UAK4Z	1,5 - 4mm ²	Phase terminal	UAK16	0 - 16mm ²	Neutral terminal	UAK16N	0 - 16mm ²	<p>Order specifications</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Article number</th> </tr> </thead> <tbody> <tr> <td>Zk4-M6</td> <td>500030</td> </tr> <tr> <td>Zk4-M8</td> <td>500031</td> </tr> </tbody> </table>	Type	Article number	Zk4-M6	500030	Zk4-M8	500031	<p>Order specifications</p> <table border="1"> <thead> <tr> <th>Art. nr.</th> <th>Cable dimensions</th> </tr> </thead> <tbody> <tr> <td>500072R</td> <td>UAD6-R, fused for 2.5-6mm²</td> </tr> <tr> <td>500073R</td> <td>UAD6n-R, not fused for 2.5-6mm²</td> </tr> <tr> <td>500072F</td> <td>UAD6-F, fused for 2.5-6mm²</td> </tr> <tr> <td>500073F</td> <td>UAD6n-F, not fused for 2.5-6mm²</td> </tr> <tr> <td>500074R</td> <td>UAD6 set, 3xUAD6-R + 1xUAD6nR</td> </tr> <tr> <td>500074F</td> <td>UAD6 set, 3xUAD6-R + 1xUAD6nF</td> </tr> </tbody> </table>	Art. nr.	Cable dimensions	500072R	UAD6-R, fused for 2.5-6mm ²	500073R	UAD6n-R, not fused for 2.5-6mm ²	500072F	UAD6-F, fused for 2.5-6mm ²	500073F	UAD6n-F, not fused for 2.5-6mm ²	500074R	UAD6 set, 3xUAD6-R + 1xUAD6nR	500074F	UAD6 set, 3xUAD6-R + 1xUAD6nF
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 **JAGUAR IoT**

 PQ  RoCoil[®] **combined**  PQ  VT[®]



JAGUAR 6300S

MEMO

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