

### SMART X96-3RC MULTIFUNCTION POWER ANALYSER WITH ROGOWSKI COIL



- No need external integrator
- Multi-parameter Measurements
- 3 selectable current scales
- RS485 Modbus RTU
- Accuracy Class 0.5s
- Bar Graph for Power Indication
- Backlit LCD Display for Full Viewing Angles
- Push-in Installation and Plug-in Connection

### Introduction

The multifunction energy analyzer SMART X96-3RC is innovative instrument for measurement of electrical parameters. The meters are particulary suitable consuption analysis and ocntrol, with an excellent quality and stability. The meters directly connected with Rogowski Coil for current measurement, without external integrator. The connectios are very quick and easy, very useful for retrofitting applications on existing switchboards or energy audit. The meters are the ideal instrument to establilish the measurement points on the plant. Built-in interfaces provides RS485 Modbus RTU. SMART X96-3RC series is a top new-generation intelligent panel meter with used not only in the electricity transmission and power distribution system, but also in the power consumption measurement and analysis in high voltage intelligent power grid.

This document provides operating, maintenance and installation instructions for the Eastron SMART X96-3RC series. The meters measure and display the characteristics of 1p2w, 3p4w and 3p3w supplies, including voltage, frequency, current, power and active and reactive energy, imported or exported, Power factor, Max. Demand etc. Energy is measured in terms of kWh, kVArh and kVAhMaximum demand current can be measured over preset periods of u p to 60minutes.

The unit uses plug-in terminals for easy wiring and push-in mechanism for quick installation.

### 1. Unit Characteristics

#### 1. 1 The Unit can measure and display:

- Line Frequency
- Phase Sequence
- Active power, reactive power, apparent power, maximum power demand and power factor
- Max./ Min.Current and voltage, Max.current demand
- Import / export / total active energy
- Import / export / total reactive energy
- Total active energy of each phase
- DPF (Displacement Power factor, Modbus read only)
- Voltage crest factor (Modbus read only)
- Current K factor (Modbus read only)

#### 1.2 The unit has password-protected set-up screens for:

- Communication setting: Modbus address, Baud rate, Parity, Stop bit
- CT setting: CT 1 (Max current input)
- **PT setting:** PT1 (Primary), PT2 (Secondary), PT rate
- Demand setting: demand method, Demand interval time
- Time setting: Backlit time, display scroll time, system RTC, Tariff Time
- System configuration: System type, System connect, Change password, Auto display scroll

#### 1.3 CT and PT

CT1 (Max value): 3 selectable scaless 1000A/ 5000A / 20000A.

- PT1 (primary voltage): 100V ~ 500,000V
- PT2 (secondary voltage): 100 to 600 V AC (L-L)

#### 1.4 RS485 Serial-Modbus RTU

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#### 1.5 Display

Liquid crystal display with backlit (360° full viewing angles) 4 lines, 4 digits per line to show electrical parameters 5<sup>th</sup> line, 8 digits to show energy Bar graph for power indication Display update time: 1 sec. for all parameters Display scrolling: automatic or manual (Programmable)

#### 2. Start up screens

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	The first screen lights all LED segments and can be used as a display LED check
50FE 01 01.00	The second screen indicates the software version of the unit. (the left picture is just for reference)
I NSE EESE PRSS	The unit performs a self-test and the screen indicates if the test is passed.

After a short delay, the default measurement screen appears.

### 3. Buttons and Displays

#### **3.1 Buttons Function**

Buttons	Click	Press 2S
Ph S	<ul> <li>Displays power, voltage, current and energy information of each phase</li> <li>Exit from the menu</li> </ul>	Automatic Scroll display ON / OFF
V/A	<ul> <li>Display Voltage and current information of the selected system type. (3p4w, 3p3w and 1p2w)</li> <li>Phase sequence</li> <li>Left side move</li> </ul>	
MD <sup>▲</sup> PF Hz	<ul> <li>Display power factor, frequency, Max. Demand.</li> <li>Max. and Min. of current and voltage</li> <li>Up page or add value</li> </ul>	
P	<ul> <li>Display active power, reactive power and apparent power information of the selected system type.</li> <li>Down page or reduce value</li> </ul>	-
E	<ul> <li>Display total / import / export active or reactive energy information of the selected system type.</li> <li>Right side move</li> </ul>	

#### 3.2 Display Mode Screen Sequence

Click button	3 Phase 4 Wire		3 Phase	3 Phase 3 Wire		1 Phase 2 Wire	
	Screen	Parameters	Screen	Parameters	Screen	Parameters	
Ph S	1	Phase 1 – Power Voltage Current kWh	1	Phase 1 – Power Voltage Current kWh	1	Phase 1 – Power Voltage Current kWh	
	2	Phase 2 – Power Voltage Current kWh	2	Phase 2 – Power Voltage Current kWh			
	3	Phase 3 – Power Voltage Current kWh	3	Phase 3 – Power Voltage Current kWh			
	4	Phase 1 – Power Voltage Current kVarh	4	Phase 1 – Power Voltage Current kVarh	2	Phase 1 – Power Voltage Current kVarh	
	5	Phase 2 – Power Voltage Current kVarh	5	Phase 2 – Power Voltage Current kVarh			
	6	Phase 3 – Power Voltage Current kVarh	6	Phase 3 – Power Voltage Current kVarh			
V/A	1	Voltage L1-N Voltage L2-N Voltage L3-N			1	Voltage L1-N	
	2	Voltage L1-L2 Voltage L2-L3 Voltage L3-L1	1	Voltage L1-L2 Voltage L2-L3 Voltage L3-L1			
	3	Current L1 Current L2 Current L3 Current Neutral	2	Current L1 Current L2 Current L3	2	Current L1	
	4	Phase Sequence	3	Phase Sequence			
MD	1	Total Power Factor Frequency	1	Total Power Factor Frequency	1	Total Power Factor Frequency	
PF Hz	2	PF L1 PF L2 PF L3	2	PF L1 PF L2 PF L3			

	3	Max. DMD of Current L1 Max. DMD of Current L2 Max. DMD of Current L3	3	Max. DMD of Current L1 Max. DMD of Current L2 Max. DMD of Current L3	2	Max. DMD of Current L1
	4	Max. DMD of W Max. DMD of Var Max. DMD of VA	4	Max. DMD of W Max. DMD of Var Max. DMD of VA	3	L1 Max. DMD of W L1 Max. DMD of Var L1 Max. DMD of VA
	5	Max. Voltage L1-N Max. Voltage L2-N Max. Voltage L3-N	5	Max. Voltage L1-L2 Max. Voltage L2-L3 Max. Voltage L3-L1	4.	Max. Voltage L1-N
	6	Min. Voltage L1-N Min. Voltage L2-N Min. Voltage L3-N	6	Min. Voltage L1-L2 Min. Voltage L2-L3 Min. Voltage L3-L1	5.	Min. Voltage L1-N
	7	Max. Current L1 Max. Current L2 Max. Current L3 Max.Current Neutral	7	Max. Current L1 Max. Current L2 Max. Current L3	6	Max. Current L1
	8	Min. Current L1 Min. Current L2 Min. Current L3 Min.Current Neutral	8	Min. Current L1 Min. Current L2 Min. Current L3	7	Min. Current L1
P	1	Active Power L1 Active Power L2 Active Power L3	1	Active Power L1 Active Power L2 Active Power L3		
	2	Reactive Power L1 Reactive Power L2 Reactive Power L3	2	Reactive Power L1 Reactive Power L2 Reactive Power L3		
	3	Apparent Power L1 Apparent Power L2 Apparent Power L3	3	Apparent Power L1 Apparent Power L2 Apparent Power L3		
	4	Total Active Power Total Reactive Power Total Apparent Power	4	Total Active Power Total Reactive Power Total Apparent Power	1	L1 Active Power L1 Reactive Power L1 Apparent Power
	1	Total kWh	1	Total kWh	1	Total kWh
E,	2	Total kVarh	2	Total kVarh	2	Total kVarh
	3	Import kWh	3	Import kWh	3	Import kWh
	4	Export kWh	4	Export kWh	4	Export kWh
	5	Import kVarh	5	Import kVarh	5	Import kVarh
	6	Export KVarh	6	Export KVarh	6	Export KVarh



### Eastron 4.1 Password Entry

PRSS	Setting-up mode is password protected, so you must enter the correct password.
1000	By firmly press the button <i>i</i> , for 2 seconds, the password screen appears. The default password is 1000. If an incorrect password is entered, the display shows ERR.

#### 4.2 Communication

582 75 485 60nn	The RS485 port can be used for communications using Modbus RTU protocol. Parameters such as Address, Baud rate, Parity, Stop bit can be selected. Long press to enter the Address option.
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#### 4.2.1 Address

582 Rddr	An RS485 network can accommodate up to 255 different devices, each identified by an address. Modbus address range 001~247 Default 001		
	Long press $E$ to enter the selection routine, the address setting will flash. Use $PFH_2$ and $P$ , $E$ to set the address with the range 001~247. And press $E$ for confirmation.		

#### 4.2.2 Baud rate

### **Eastrun**

582 6800 9800	Baud rate options: 2400 4800 9600 19200 38400 (bps). Default: 9600bps From the Set-up menu, Use
582 5808 1 9200	Example shows: SET Baud rate 19200 (bps) And long press for confirmation.

4.2.3 Parity

582 PRP1 NONE	Parity Options: NONE, EVEN, ODD. Default Parity : NONE Note that if parity is set to ODD or EVEN, Stop Bits will be set to 1 and cannot be changed. From the Set-up menu, Use The press to enter the selection routine. The Parity setting will flash. Use MD <sup>A</sup> PF Hz and P to choose Parity.
582	Example shows:
PRP1	Set Parity: EVEN
<mark>8281</mark>	And long press for confirmation. Press esc to return the main set up menu.

582 2821	Example shows: Set Parity: Odd
660	And long press for confirmation. Press Brown to return the main set up menu.

#### 4.2.4 Stop bit

582 520P 1	Stop Bit options: 1 or 2. Default Stop Bit : 1 Note that if parity is set to ODD or EVEN, Stop Bits will be set to 1 and cannot be changed. From the Set-up menu, Use $PFHZ$ and $P$ to select the Stop Bit options. Long press $E$ to enter the Stop Bit routine. The Stop Bit setting will flash. Use PFHZ and $P$ to choose Stop Bit.
588 580P 2	Example shows Set Stop bit 2 And long press for confirmation. Press Ph S set up menu.

#### 4.3 CT

585	From the main Set-up menu, Use $P^{\text{MD}}$ and $P^{\text{V}}$ to select the CT option.
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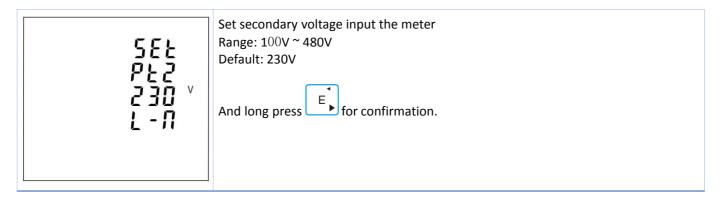
#### 4.3.1 CT1

588 681 5 * A	Set current input the meter Options: 1kA,5kA,20kA Default CT2: 1kA Long press $E$ to enter the CT1 routine. Press $E$ for 2s, the CT1 setting will flash. Use $P$ to choose CT1 with 1kA,5kA or 20kA.
588	Example shows :
581	Set CT1 5kA
5 * A	And long press for confirmation.

#### 4.4 PT

582	The PT option sets the secondary voltage of the voltage transformer (PT) that give into the meter and the PT rate between the primary voltage to the secondary voltage.
PŁ	For example: if the PT connect to the meter is 10000/100V (Primary voltage is 10000V, secondary voltage is 100V), then the PT rate is 100.
	Long press $E$ to enter the PT2 routine. Press $E$ , the PT2 setting will flash. Use $PFHZ$ and $P$ , $E$ to choose PT2 with 174~480.

#### 4.4.1 PT2



#### 4.4.2 PT1

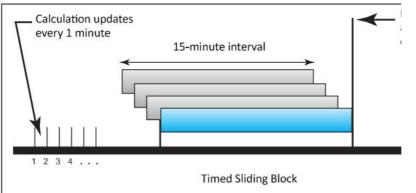
SEL PL 1 Default: 230Range: 100 Default: 230DE DE DE DE Then pressRange: 100 Default: 230DE DE DE IRange: 100 Default: 230DE DE II I I IDE I I II I I I IDE I I I II I I I IDE I I I II I I I I IDE I I I I II I I I I IDE I I I I II <b< th=""><th>voltage input the meter <math>\sqrt{500000V}</math> <math>\frac{P}{P}</math> to enter the PT2 routine. press <math>E</math> for 2s, the PT2 setting will <math>\frac{MD}{PFHZ}</math> and <math>P</math>, <math>E</math> to select PT2. And long press <math>E</math> for n. Press <math>esc</math> to return the PT set up menu.</th></b<>	voltage input the meter $\sqrt{500000V}$ $\frac{P}{P}$ to enter the PT2 routine. press $E$ for 2s, the PT2 setting will $\frac{MD}{PFHZ}$ and $P$ , $E$ to select PT2. And long press $E$ for n. Press $esc$ to return the PT set up menu.
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#### 4.5 Demand

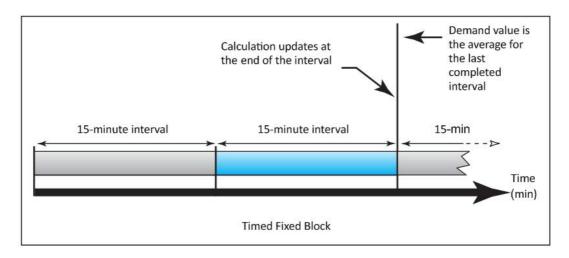
582	This sets the period in minutes over which the current and power readings are integrated for maximum demand measurement. The options are: OFF, 5, 8, 10, 15,30, 60 minutes.
៨កំ៨	From the Set-up menu, Use $P^{\text{MD}}$ and $P^{\text{V}}$ to select the Demand option.

The unit provides block interval demand calculation. In this method, you select a 'block' of time that power meter uses for the demand calculation. You choose how the power meter handles that block of time (interval). Two different modes are optional.

**Slide Block:** Select a demand interval time (DIT) from 1 to 60 minutes (in 1 minute increments). Set the calculation update time from 1 to 59minutes. The power meter displays the demand value for the last completed interval.



**Fixed Block:** Select an interval from 1 to 60 minutes (in 1 minute increments). The power meter calculates an updates the demand at the end of each interval.



#### 4.5.1 Demand method

585 drid rit Xd SLI d	The screen shows the Demand calculation method: Slid Options: Fix and Slid Use The provide the enter Demand calculation method.
582 dñd ñ2Xd <mark>F1 =</mark>	Long press to enter the routine. The setting will flash. Use $PFHZ$ and $P$ to choose Options. And long press for confirmation. Press to return the Demand set up menu.

#### 4.5.2 Demand interval time/ Block time (DIT)

582	The screen will show the currently selected integration time.
d12	Default is 60 minutes. range from 1 to 60. Off means function closed.
50	Long press $E$ to enter the DIT routine. Press $E$ for 2s, the setting will flash. Use $P$ to choose Options. And long press $E$ for confirmation.

#### 4.5.3 Sliding time

ССЬ	The screen will show the Sliding time for the sliding mode.
SLI d	The sliding time shall be set not bigger than the DIT.
<u>ት</u> 1 7 2	
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#### 4.6 Time

582	This option sets the backlight lasting time and display scroll time. From the Set-up menu, Use and read to select the Time option.
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#### 4.6.1 Backlight time

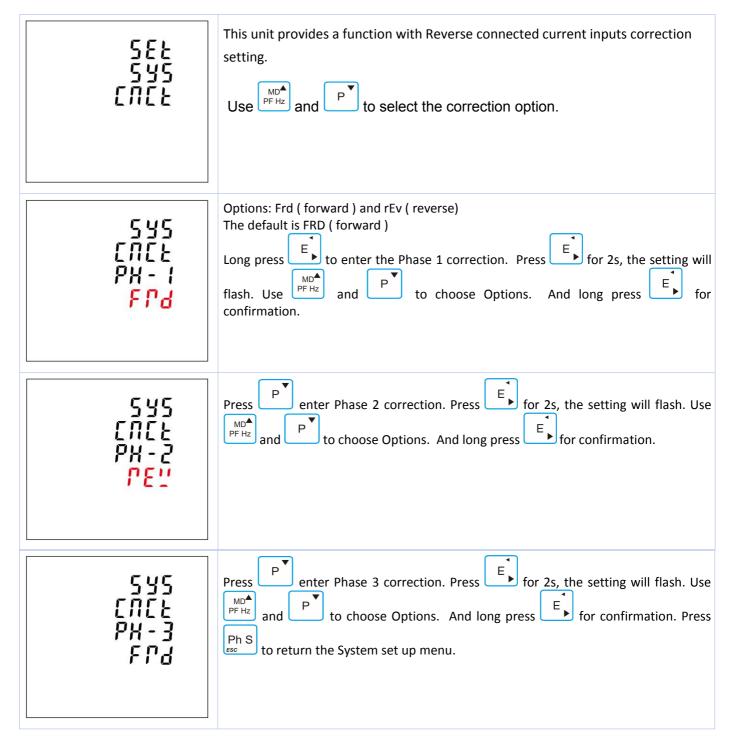
582 582 582 50	The meter provides a function to set the backlit lasting time. Options: ON/OFF/5/10/30/60/120 minutes. Default: 60 If it is seated as 5, the backlit will be off in 5 minutes. Note: if it is set as ON, the backlit will always be on. Long press to enter the Backlit time routine. Press P for 2s, the setting will flash. Use P to choose Options. And long press for confirmation.
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#### 4.6.2 Display scroll time

#### 4.7.1 System type

582 595 2978 394	The screen shows the currently selected power supply is three phase four wire Long press $\overbrace{P}^{H}$ to enter the System type routine. Press $\overbrace{E}^{H}$ for 2s, the setting will flash. Use $\overbrace{P}^{H}_{F}$ and $\overbrace{P}^{\bullet}$ to choose Options. And Long press $\overbrace{E}^{\bullet}$ for confirmation.
588 595 898 <mark>393</mark>	Example shows: The screen shows the currently selected power supply is three phase three wire
582 595 292 192	Example shows: The screen shows the currently selected power supply is single phase two wire

#### 4.7.2 System connect

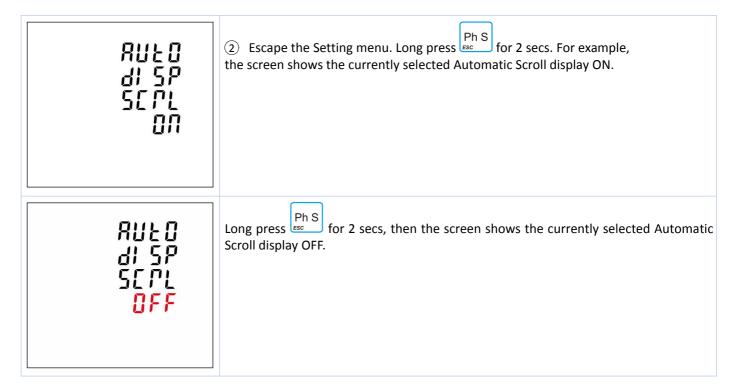


#### 4.7.3 Change password

582	This unit provides a function with password setting.
PRSS	Default: 1000
2073	Options:0000~99999
1000	Use The and The select the change password option.
582 PRSS YOP3 1000	Press $\overbrace{F}^{MD}$ for 2s, the setting will flash. Use $\overbrace{PFHz}^{MD}$ and $\overbrace{P}^{T}$ , $\overbrace{E}^{T}$ to choose Options. And long press $\overbrace{F}^{T}$ for confirmation.

#### 4.7.4 Automatic display scroll

582 RUED	This unit provides a function with automatic display scroll setting. Options: on and off There are two ways:
81 SP SEPL	1 Use $P Hz$ and $P$ to select the automatic display scroll option. Press for 2s, the setting will flash. Use $P Hz$ and $P$ to choose options "On" or
	"Off". And long press for confirmation.



#### 4.12 Reset

ΓS- 582	This unit provides a function with reset for different information. By pressing the button $\mathbf{E}$ , the user can get into sub-menu. Use $\mathbf{P}_{PFHz}$ and $\mathbf{P}$ to select the Reset option.
ГЕ- 58£ ЕЛБУ	This option is to reset Energy information. It would reset active, reactive, apparent, import, export energy information.

# Eastrun

ΓΕ-	This option is to reset the demand information.
582	It would reset current and power demand information.
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### 5. Specifications

### Table 1

Electrical char		
Type of measureme	ent	RMS including harmonics on three phase AC system (3P, 3P+N)
		128 samples per cycle
Measurement	Power	IEC 61557-12 Class 0.5
accuracy	Active Energy	IEC 62053-22 Class 0.5S, IEC 61557-12 Class 0.5
	Reactive Energy	IEC62053-23 Class 2, IEC 61557-12 Class 2
	Frequency	±0.1%
	Current	±0.2%
	Voltage	±0.2%
	Power Factor	±0.01
	Harmonic Distortion	2
Data Update Rate		1 second nominal
Input-Voltage	VT Primary	100~500000V ac
	Un	230 V L-N
	Measured Voltage with	100 to 480Vac L-L
	Over-range and Crest	100 to 276Vac L-N
	Factor	
	Permanent Overload	490V L-L
		280V L-N
	Impedance	1Μ Ω
	Frequency Range	45~66Hz
Input- Current	Max current input	3 selectable current scales: 1000A,5000A, 20000A
input current	Withstand	0.1% Imax
	Impedance	<1 m Ω
		45~66Hz
Auvilian Dowor	Frequency Range	
Auxiliary Power	Operating Range	65~480V AC / 80~660V DC
Supply	Power Consumption	< 7VA/3.5W. 45 to 65 Hz
Mashariaal	Frequency	45 10 05 HZ
Mechanical C	naracteristics	
Weight		450g
IP Degree of Protec	tion	IP51 front display
(IEC 60529)		
Dimensions (WxHxI	)	96x96x70.3
Mounting Position		Vertical
Panel Thickness		1~5mm
Material of meter c	ase	Self-extinguishing UL 94 V-0
Mechanical environ	iment	M1
Environmenta	I Characteristics	
Operating Tempera	ture	-25 to 55°C
Storage Temperature		-40 to 70°C
Humidity Rating		<pre>&lt;95% RH at 50 °C (non-condensing)</pre>
Pollution Degree		2
Altitude		2000m
Vibration		10Hz to 50Hz, IEC 60068-2-6
	tic Compatibility	
	tic Compatibility	
Electrostatic Discharge Immunity to Radiated Fields		IEC 61000-4-2
•		IEC 61000-4-3
Immunity to Fast Tr	ansients	IEC 61000-4-4

Immunity to Impulse Waves	IEC 61000-4-5
Conducted Immunity	IEC 61000-4-6
Immunity to Magnetic Fields	IEC 61000-4-8
Immunity to Voltage Dips	IEC 61000-4-11
Radiated Emissions	EN55011 Class A
Conducted Emissions	EN55011 Class A
Harmonics	IEC 61000-3-2
Safety	
Measurement Category	Per IEC61010-1
	CAT III
Current Inputs	Require external Current Transformer for Insulation
Over voltage Category	CAT III
Dielectric Withstand	As per IEC 61010-1 Double Insulated front panel display
Protective Class	II
Communications	
Interface standard and protocol	RS485 and MODBUS RTU
Communication address	1~247
Transmission mode	Half duplex
Data type	Floating point
Transmission distance	1000m Maximum
Transmission speed	2400bps~38400bps
Parity	None (default), Odd, Even
Stop bits	1 or 2
Response time	<100 mS

### Table 2

Features	X96-3RC
Instantaneous Measurements	
Current	•
Voltage L-N	•
L-L	•
Frequency	•
Active power	•
Reactive power	•
Apparent power	•
Power factor	•
Energy Values	
Active energy	•
Reactive energy	•
Apparent energy	•
Demand Values	
Current	•
Active, reactive, apparent power	•
Maximum Demand Values	
Maximum current	•
Maximum active power	•
Maximum reactive power	•
Maximum apparent power	•
Min. and Max. Value	
Active power per phase and total	•
Reactive power per phase and total	•
Apparent power per phase and total	•
PF per phase and total	•
Current per phase and average	•
Power-Quality Values	
Total harmonic distortion	•
Running Hour	•
Real Time Clock	•
Network	
Single phase 2 wrie	•
Two phase 3 wire	•
Three phase 3 wire	•
Three phase 4 wire	•
CT programmable	•
PT programmable	•
Inputs and Outputs	
Digital Inputs	_
Digital Outputs	_
Alarms	_

Communications	
RS485	•
M-Bus	*
Lora	*
Accuracy	
Active energy	Cl. 0.5s
Reactive energy	1%
Current	0.5%
Voltage	0.5%
Power	0.5%
Hz	0.2%
Number of measurement points per circle	128
Auxiliary power supply	•

Note: • = included

\* = optional

— = excluded

#### 6. Maintenance

In normal use, little maintenance is needed. As appropriate for service conditions, isolate electrical power, inspect the unit and remove any dust or other foreign material present. Periodically check all connections for freedom from corrosion and screw tightness, particularly if vibration is present.

The front of the case should be wiped with a dry cloth only. Use minimal pressure, especially over the viewing window area. If necessary wipe the rear case with a dry cloth. If a cleaning agent is necessary, isopropyl alcohol is the only recommended agent and should be used sparingly. Water should not be used. If the rear case exterior or terminals should be contaminated accidentally with water, the unit must be thoroughly dried before further use. Should it be suspected that water might have entered the unit, factory inspection and refurbishment is recommended.

In the unlikely event of a repair being necessary, it is recommended that the unit be returned to the factory or nearest Eastron distributor.

#### **Battery Replacement**



When you replace the battery, make sure the meter's voltage input must be disconnected.



#### 7 Installation

The unit may be mounted in a panel of any thickness up to a maximum of 3 mm. Leave enough space behind the instrument to allow for bends in the connection cables. The unit is intended for use in a reasonably stable ambient temperature within the range -25°C to +55°C. Do not mount the unit where there is excessive vibration or in excessive direct sunlight.

#### 7.1 Safety

The unit is designed in accordance with IEC 61010-1:2010 – Permanently connected use, Normal condition. Installation category III, pollution degree 2, basic insulation for rated voltage.

#### 7.2 EMC Installation Requirements

Whilst this unit complies with all relevant EU EMC (electro-magnetic compatibility) regulations, any additional precautions necessary to provide proper operation of this and adjacent equipment will be installation dependent and so the following can only be general guidance:

Avoid routing wiring to this unit alongside cables and products that are, or could be, a source of interference.

The auxiliary supply to the unit should not be subject to excessive interference. In some cases, a supply line filter may be required.

To protect the product against incorrect operation or permanent damage, surge transients must be controlled. It is good EMC practice to suppress transients and surges at the source. The unit has been designed to automatically recover from typical transients; however in extreme circumstances it may be necessary to temporarily disconnect the auxiliary supply for a period of greater than 10 seconds to restore correct operation.

Screened communication leads are recommended and may be required. These and other connecting leads may require the fitting of RF suppression components, such as ferrite absorbers, line filters etc., if RF fields cause problems.

It is good practice to install sensitive electronic instruments that are performing critical functions in EMC enclosures that protect against electrical interference causing a disturbance in function.

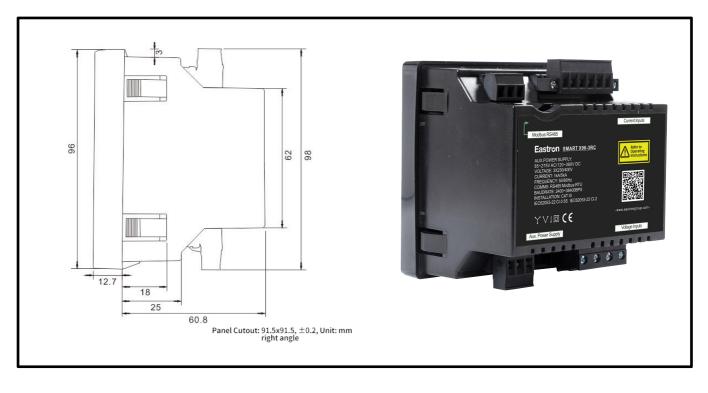




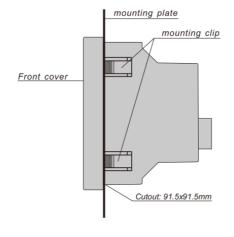
- During normal operation, voltages hazardous to life may be present at some of the terminals of this unit. Installation and servicing should be performed only by qualified, properly trained personnel abiding by local regulations. Ensure all supplies are de-energized before attempting connection or other procedures.
- Terminals should not be user accessible after installation and external installation provisions must be sufficient to prevent hazards under fault conditions.
- This unit is not intended to function as part of a system providing the sole means of fault protection good engineering practice dictates that any critical function be protected by at least two independent and diverse means.
- The unit does not have internal fuses therefore external fuses must be used for protection and safety under fault conditions.
- Never open-circuit the secondary winding of an energized current transformer.
- This product should only be operated with CT secondary connections Earthed.
- If this equipment is used in a manner not specified by the manufacturer, protection provided by the equipment may be impaired.

Auxiliary circuits (communication & relay outputs) are separated from metering inputs and 110-400V auxiliary circuits by at least basic insulation. Such auxiliary circuit terminals are only suitable for connection to equipment which has no user accessible live parts. The insulation for such auxiliary circuits must be rated for the highest voltage connected to the instrument and suitable for single fault condition. The connection at the remote end of such auxiliary circuits should not be accessible in normal use. Depending on application, equipment connected to auxiliary circuits may vary widely.

#### 7.3 Dimensions

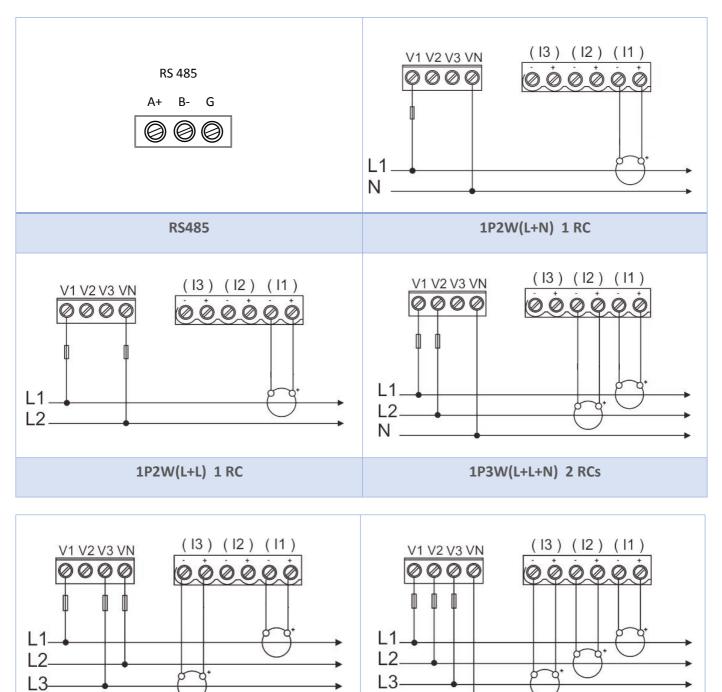


7.4 Mounting



Panel Cutout: 91.5x91.5, ±0.2, Unit: mm right angle

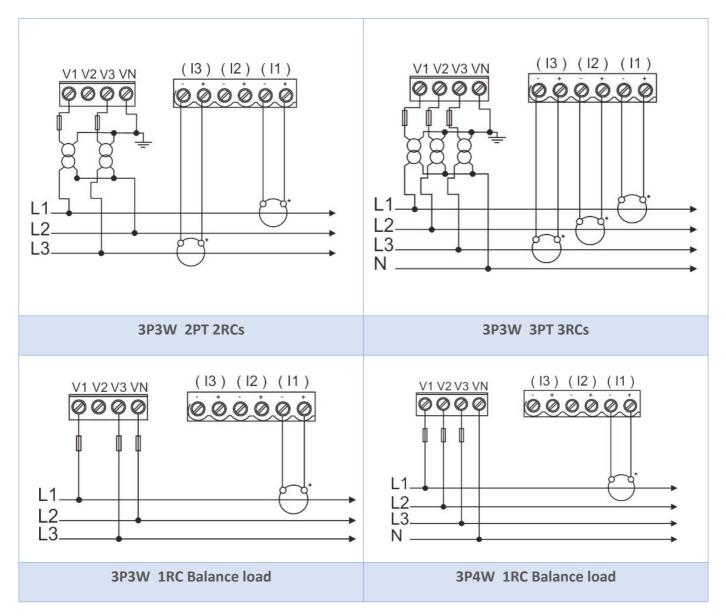
7.5 Wiring Diagram



3P3W 2RCs

3P4W 3RCs

N =



If you have any question, please feel free to contact our sales team.

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