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# **General Specifications**

Voltage AC (Un) Voltage Range Base Current (Ib) Max. Current (Imax) Mini Current (Imin) Starting current Power consumption Frequency AC voltage withstand 230V 176~276V AC 10A 80A 0.5A 0.4% of Ib <2W/10VA 50Hz(±10%) 4KV for 1 minute

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Impulse voltage withstand Overcurrent withstand Pulse output rate Display	6KV-1.2uS w 30Imax for 0 1000imp/kW LCD with ba	.01s h (default)
Accuracy Active energy	Class 1 IEC Class B EN5	
Environment		
Operating temperature		-25℃ to +55℃
Storage and transportation ten	nperature	-40°C to +70°C
Reference temperature Relative humidity		23℃±2℃ 0 to 95%, non-condensing
Altitude		up to 2500m
Warm up time		10s
Installation category		CAT III
Mechanical Environment		M1
Electromagnetic environment		E2
Degree of pollution		2
IP level		IP51 (Indoor, the meter is to be installed in

IP51 (Indoor, the meter is to be installed in Cabinet higher than IP51)

# Output

# **Pulse Output**

The meter provides one pulse output. It is fixed up with total kwh. The constant is 1000imp/kWh.

# **RS485 output for Modbus RTU**

The meter provides a RS485 port for remote communication. Modbus RTU is the protocol applied. For Modbus RTU, the following RS485 communication parameters can be configured from the Set-up menu. **Baud rate:** 9600

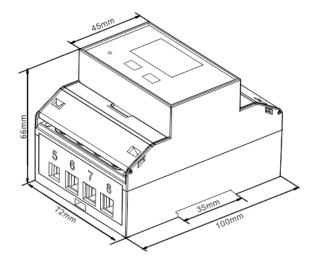
Parity: NONE Stop bits: 1 Modbus Address: 1

**Dimensions:** 

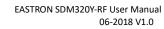
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EASTRON SDM320Y-RF User Manual 06-2018 V1.0

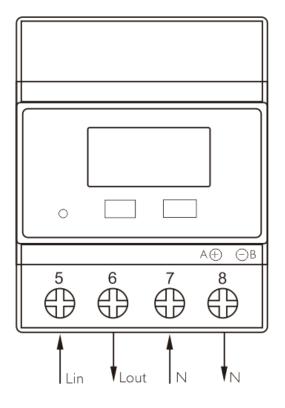


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# Wiring Diagram



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#### Information for Your Own Safety

This manual does not contain all of the safety measures operating the equipment (module, device) for different conditions and requirements. However, it does contain information which you must know for your own safety and to avoid damages. This information is highlighted by a warning triangle indicating the degree of potential danger.



#### Warning

It means that failure to follow the instruction can result in death, serious injury or considerable material damage.



# Caution

It means hazard of electric shock and failure to take the necessary safety precautions will result in death, serious injury or considerable material damage.

#### **Qualified personnel**

Operation of the equipment (module, device) described in this manual may only be performed by qualified personnel. Qualified personnel in this manual means person who are authorized to commission, start up, ground and label devices, systems and circuits according to safety and Regulatory standards.

#### Proper handling

The prerequisites for perfect, reliable operation of the product are proper transport, proper storage, installation and proper operation and maintenance. When operating electrical equipment, parts of this equipment automatically carry dangerous voltages. Improper handling can therefore result in serious injuries or material damage.

- ♦ Use only insulating tools.
- $\diamond$  Do not connect while circuit is live (hot).
- ♦ Do not connect the meter to a 3 phase 400VAC network.
- ♦ Place the meter only in dry surroundings.
- Do not mount the meter in an explosive area or expose the meter to dust, mildew and insects.
- ♦ Make sure the wires are suitable for the maximum current of this meter.
- Make sure the AC wires are connected correctly before activating the current/voltage to the meter.
- ♦ Do not touch the meter connecting clamps directly with metal, blank wire and your bare hands as you may get electrical shock.
- $\diamond$  Make sure the protection cover is placed after installation.
- ♦ Installation, maintenance and reparation should only be done by qualified personnel.
- $\diamond$  Never break the seals and open the front cover as this might influence the function of the



meter, and will cause no warranty.

Do not drop, or allow strong physical impact on the meter as the high precisely components inside may be damaged.

#### **Operation instruction**

#### 1. Start up screen:

1	WELCOME	The first screen lights up all display segments and can be used as a display check
2	Initial testing	The second screen indicates the software version.
3	Software Version 1.2	Software version
4	Meter Number: 94967295	Meter Serial Number

After 5 seconds delay, the screen will display active energy measurements.

### The buttons operate as follows:

1	<ul><li>&gt;Scroll the display for data checking.</li><li>&gt;Changing option at Set-up mode</li><li>&gt;Exit the Set-up mode</li></ul>
2	>Set-up mode entry >Confirmation

Page	Display	Descriptions
1	Remaining T1 1000.00 £	Remaining credit 1000£ T1 is working



2	Used 0.00 £	Used value 0.00 £
3	Used 0.00 kWh	Used kWh 0.00 kWh
4	Used Tariff 1 0.00 £	Used value on Tariff 1
5	Used Tariff 2 0.00 £	Used value on Tariff 2
6	Used Tariff1 0.00 kWh	Used kWh on Tariff 1
7	Used Tariff 2 <b>0.00</b> kWh	Used kWh on Tariff 2
8	Total 0.00 kWh	Accumulated used kWh
9	Meter Number: 94967295	Meter serial number
10	Alarm1 <b>2.00</b> Alarm2 <b>1.00</b> E	Two Alarm levels Alarm level 1 is 2 £; Alarm level 2 is 1 £
11	Time 18-06-23 10:17:17	Date and time
12	Unit Price: per kWh T1: 0.15 T2: 0.12	Unit price per kWh

# **Declaration of Conformity**

We Zhejiang Eastron Electronic Co., Ltd. Declare under our sole responsibility as the manufacturer that the single phase prepay energy meter SDM320Y-RF correspond to the



production model described in the EU-type examination

certificates and to the requirements of the Directive 2014/32/EU EU type examination certificate number 0120/SGS0391. Identification number of the Notified Body is NB0120.