

Ilcor Manual

SDM320Y-RF Prepayment Metering		
1 Introduction		
This document provides operating, maintenance and installation instructions. This unit measures and displays the characteristics of Single Phase Two Wire (1P2W) network. The measuring parameters include Total Energy kWh.		
It also comes with a complete comms capability with built in RS485 Modbus RTU outputs, configuration is password protected. This unit is 10(80)A direct connected.		
1.1 Unit Characteristics The SDM320Y-RF can measure an	d display:	
Total Active Energy / Class B EN50470 1/3		
The unit has a Password-Protected set up menu for: • Time Settings • Password Settings		
1.2 RS485 Serial – Modbus RTU		
RS485 serial port with Modbus RTU protocol to provide a means of remotely monitoring and controlling the Unit.		
Baud rate 9600		
Parity none		
2 Start Up Screens		
WELCOME	The first screen lights up all display segments and can be used as a display check	
Initial testing	The interface performs a self- test and indicates the result if the test passes.	
Software Version 1.1	The second screen indicates the software version .	

*After a short delay, the screen will display active energy

measurements. The buttons operate as follows:

Meter Number:

94967295



>Scroll the display for data checking. >Changing option at Setup mode >Exit the Setup mode

Meter Serial Number

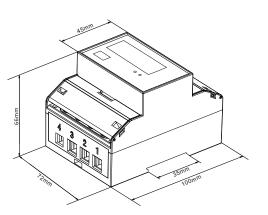
>Setup mode entry >Confirmation

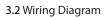
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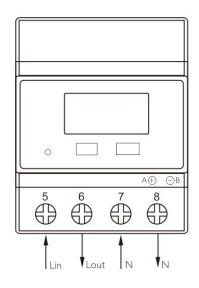
fall Displa

Display as follows:	
Used 0.00 f	Used value 0.00 £
^{Used} 0.00 ^{kWh}	Used kWh 0.00 kWh
Used Tarrif 1 0.00 [£]	Used value on Tariff 1
Used Tarrif 2 0.00 [£]	Used value on Tariff 2
Used Tarrif 1 0.00 ^{kWh}	Used kWh on Tariff 1
Used Tarrif 2 0.00 ^{kWh}	Used kWh on Tariff 2
Total 0.00 ^{kWh}	Total energy in kWh.
Meter Number: 94967295	Meter Serial Number
Alarm 1 2.00 Alarm 2 1.00 £	Alarm Settings 1 & 2
Time 18-06-23 10:17:17	Date and time
Unit Price: per kWh ^{T1:} 0.15 ^{T2:} 0.12	Unit price per kWh for each Tarriff
o enter set-up mode, press 💽 & 🖵 the button for 3 seconds, intil the password screen appears.	
Password 1000	Setting up is password- protected so you must enter the correct password (default '1000') before processing.
Password Setting	set-up new password using, press 🔊 & hold 🖃 for 3 seconds to enter
Time Setting 2021-03-03 22:14:45	set-up new time using, press

3.1 Dimensions







3.3 Environment

Operating temperature	-25°C to +55°C*
Storage temperature	-40°C to +70°C*
Relative humidity	0 to 90%, non-condensing
Altitude	Up to 2500m
Warm up time	10 Secs
Installation Catagory	CAT III
Mechanical Enviroment	M1
Electromagnetic environment	E2
Degree of pollution	2
IP Level	IP51 (Indoor, the meter is to be installed in Cabinet higher than IP51)

*Maximum operating and storage temperatures are in the context of typical daily and seasonal variation.

3.4 Declaration of Conformity

We, Eastron , declare under our sole responsibility as the manufacturer that the single phase multifunction electrical energy meter "SDM320Y-RF", corresponds to the production model described in the EU-type examination certificate and to the requirements of the Directive 2014/32/EU EU type examination certificate number 0120/SGS0391. Identifcation number of the NB 0120.

