

SDM72 Series

Smart Three Phase Four Wire Energy Meter



USER MANUAL
2026 V1.0

Statements

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Eastron reserves the right to amend the product specifications in this manual without prior notice. Before placing an order, please contact our company or local agent to get the latest specifications.

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Version History

Version	Date	Changes
1.0	2026-04-20	Initial issue

Risk Information

Information for Your Own Safety

This manual does not contain all of the safety measures for 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, which indicates the degree of potential danger.



Warning

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



Caution

This 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 must only be performed by qualified personnel. Qualified personnel in this manual means people who are authorized to commission, start up, ground and label devices, systems and circuits in accordance with Safety Regulatory standards.

Proper handling

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

- ✧ Use only insulating tools.
- ✧ Do not connect while circuit is live (hot).
- ✧ 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 clamps directly with metal, blank wire or your bare hands as you may get electrical shock.
- ✧ Make sure the protection cover is placed after installation.
- ✧ Installation, maintenance and reparation should only be done by qualified personnel.
- ✧ Never break the seals or open the front cover as this might influence the function, and will void the warranty.
- ✧ Do not drop, or allow strong physical impact on the meter as the high precisely components inside may be damaged.
- ✧ This product is designed to be mounted inside of switchboards or cabinet on DIN rail.
- ✧ This device must have a suitable sized Circuit Breaker feeding the Multi Function Energy Meter so it does not

exceed the maximum rated current.

- ✧ The supply wiring of this device shall be suitable sized cable to match the installed circuit breaker.
- ✧ A Disconnection Device (Circuit Breaker) should be installed close to the Multi Function Energy Meter.
- ✧ The Disconnection Device shall be marked as the Disconnection Device for the Multi Function Energy Meter.

Disclaimer

We have checked the contents of this publication and every effort has been made to ensure that the descriptions are as accurate as possible.

However, deviations from the description cannot be completely ruled out, so that no liability can be accepted for any errors contained in the information given. The data in this manual is checked regularly and the necessary corrections are included in subsequent editions. We are grateful for any improvements that you suggest.

Chapter 1. Introduction

1.1 Product Introduction

The SDM72 series are three-phase four-wire energy meters with a white back-lit LCD screen for perfect reading.

The series includes three models:

SDM72D: Measures and displays active energy (kWh).

SDM72DR: Measures and displays active energy (kWh) and active power (W), with resettable partial energy.

SDM72Bi: Bi-directionally measures and displays total/import/export active energy (kWh) and power (W).

Resettable partial energy is also provided.

All models support direct connection up to 100A, eliminating the need for external CTs. A pulse output is provided for remote data acquisition.

1.2 Product Characteristics

- Active energy (kWh)
- Bi-directional measurement IMP & EXP (SDM72Bi only)
- Active energy + active power (SDM72DR and SDM72Bi)
- Resettable partial energy (SDM72DR and SDM72Bi)
- 100A direct load
- LCD with white backlit

1.3 Application Scenarios

The SDM72 series offers three three-phase energy meters for industrial, commercial, and renewable energy applications. All models support direct connection up to 100A, making them suitable for distribution cabinets, building energy management, rental equipment billing, production shift energy assessment, PV self-consumption, and EV charging.

Chapter 2. Technical Parameters

2.1 Specifications

Electrical Characteristics		
Type of Measurement		RMS
Measurement Accuracy	Active Power	$\pm 1\%(10\%I_b \sim I_{max})$
	Active Energy	Class 1 IEC62053-21 Class B EN50470-3:2022
Technical parameters	Voltage AC (Un)	3*230/400VAC
	Voltage Range	80~120% Un
	Frequency	50/60Hz (MID:50Hz)
	Current Input	10A
	Maximum Current	100A
	Minimum Current	0.5A
	Starting Current (Ist)	0.04A
	Transition Current (Itr)	1A
	Over Current Withstand	30I _{max} for 0.01S
	AC Voltage Withstand	4KV/1min
	Impulse Voltage Withstand	6kV – 1.2/50μS waveform
	Voltage Circuit Power Consumption	≤ 2W/10VA
	Current Circuit Power Consumption	≤2VA
	Pulse output rate	1000imp/kWh (default)
	Display	LCD with white backlit
	Max. reading	999999.9 kWh
Mechanical Characteristics		
Net Weight		≈288g
IP Degree of Protection (IEC 60529)		IP51 Front Display IP20 Whole Meter
Dimensions (WxHxD)		72* 100* 66mm
Mounting		DIN Rail 35mm
Material of Meter Case		Self-extinguishing UL 94 V-0
Mechanical Environment		M1
Environmental Characteristics		
Operating Temperature		-40℃ ~ +70℃
Storage Temperature		-40℃ ~ +80℃
Operation humidity		≤90% Non-condensing
Storage humidity		≤95% Non-condensing
Pollution Degree		II
Altitude		≤2000m

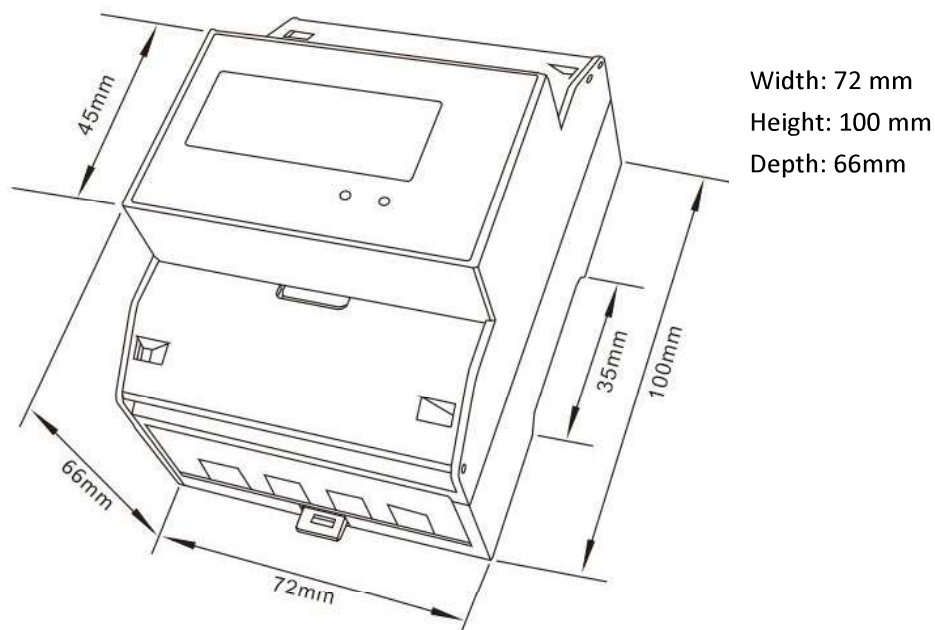
Vibration	10Hz ~ 150Hz, IEC 60068-2-6
Electromagnetic Compatibility	
Electrostatic Discharge	IEC 61000-4-2
Immunity to Radiated Fields	IEC 61000-4-3
Immunity to Fast Transients	IEC 61000-4-4
Surge (Impulse) Immunity	IEC 61000-4-5
Conducted Immunity	IEC 61000-4-6
Immunity to Magnetic Fields	IEC 61000-4-8
Immunity to Voltage Dips	IEC 61000-4-11
Radiated Emissions	CISPR 32
Conducted Emissions	CISPR 32
Safety	
Installation Category	CAT III
Over-voltage Category	CAT III
Protective Class	II
Pulse Output (Factory Configurable)	
Type	Default: import kWh
Constant	Default: 1000 imp/kWh
Width	Default: 35ms Note: When pulse constant is 1000imp/kWh, pulse width is fixed at 35ms and can not be adjusted.
Pulse LED	
Type	imported kWh & exported kWh
Constant	1000imp/kWh
Width	100ms

Technical Standards:

- [1] EN IEC61326-1: 2021 Electromagnetic Compatibility Directive - Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
- [2] EN IEC 61326-2-3: 2021 Electromagnetic Compatibility Directive
- [3] EN61010-1:2010+A1:2019 Low Voltage Directive 2014/35/EU - Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
- [4] EN61010-2-030:2010 Low Voltage Directive 2014/35/EU - Particular requirements for testing and measuring circuits
- [5] EN 50470-3:2022 Electricity metering equipment - Part 3: Particular requirements - Static meters for AC active energy (class indexes A, B and C)
- [6] EN IEC 62052-11:2021/A11:2022, Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment
- [7] IEC 62052-31:2015 Electricity metering equipment (AC) – General requirements, tests and test conditions – Part 31: Product safety requirements and tests

[8] IEC 62053-21:2021 Electricity metering equipment – Particular requirements – Part 21: Static meters for AC active energy (classes 0,5, 1 and 2)

2.2 Dimensions



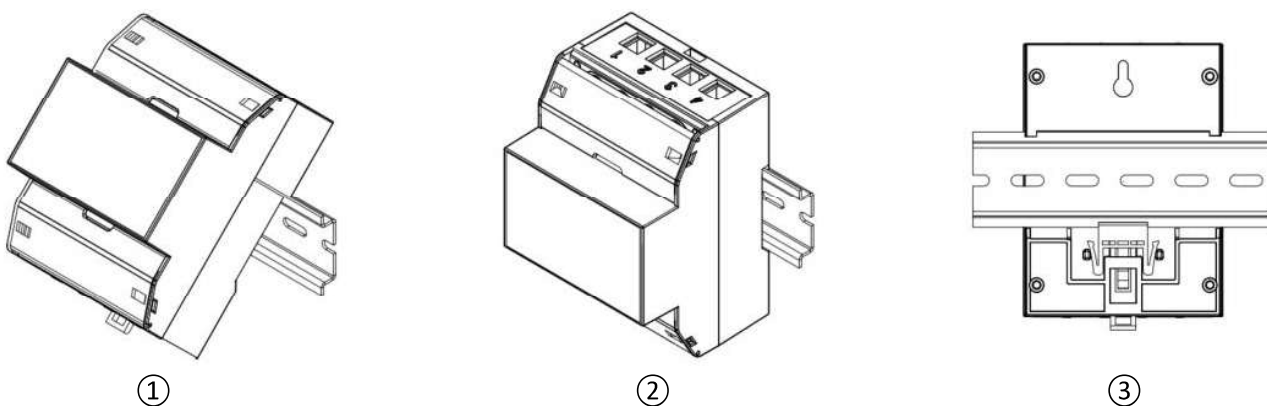
2.3 Mounting

Step 1: Select a 35mm-wide DIN rail, Pull down the back-end clip on the meter to unlock the mounting mechanism.

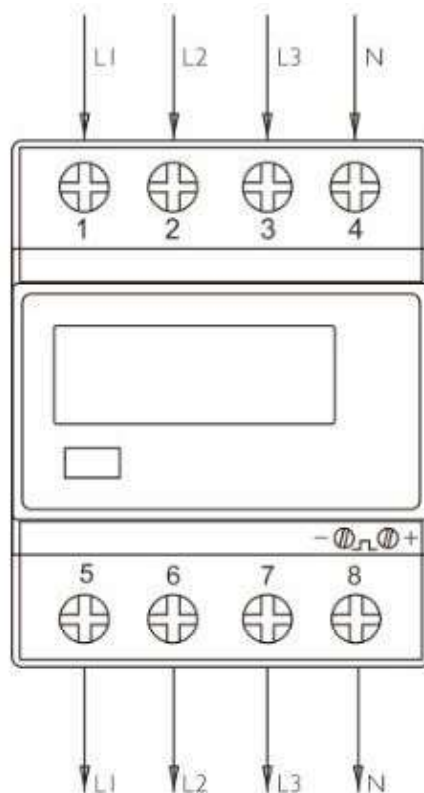
Step 2: Align Upper Slot with DIN Rail. Position the upper slot of the meter's DIN rail groove onto the DIN rail, ensuring full contact (see Figure 1).

Step 3: Following the direction indicated in Figure 1, engage the lower slot of the DIN rail groove onto the DIN rail until audibly seated (see Figure 2).

Step 4: Push up the back-end clip to lock the meter firmly onto the DIN rail (see Figure 3).



2.4 Wiring Diagram



Wiring Guide

Terminal ①~⑧	Measurement Connection	Screw Connection
	Strip Length	12-13mm
	Screw	M5
	Rigid/Supple	4-25mm ² (11~4AWG)
	Tightening Torque	3.5Nm
	Model	PH2
Terminal - ~ +	Measurement Connection	Screw Connection
	Strip Length	5-6mm
	Rigid/Supple	0.5-1.5mm ² (22 ~ 14AWG)
	Tightening Torque	0.4Nm
	Model	PH0

Chapter 3. Operation

3.1 Button Functions

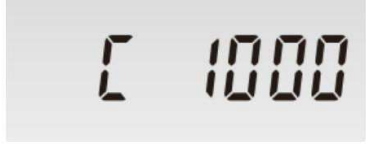
The buttons operate as follows:

Button	Short click	Long press (3s)
	Display mode	Display mode
	Switch display screens	reset the currently displayed partial energy (resettable value only)

Note: Not applicable to SDM72D

3.2 Installation Display

Connect the wire and power on the meter to enter the normal measurement state. The screen display is as follows:

	The first screen lights up all display segments and can be used as a display check
	The second screen show software version Note: the actual display might be different with the left on here.
	The third screen shows program number
	The fourth screen shows Pulse Constant

	The fifth screen show High byte CRC value Note: the actual display might be different with the left on here.
	The sixth screen show Low byte CRC value Note: the actual display might be different with the left on here.
	The seventh screen show Total Active Energy(kWh) Total=Import+ Export

3.3 Basic information display

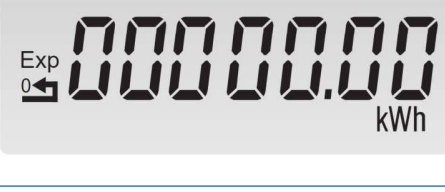


Each successive pressing of the button selects a new range(SDM72DR and SDM72Bi only):

SDM72DR display cycle:

	Total active energy (kWh)
	Resettable Partial energy (kWh)
	Total Power (w)

SDM72Bi display cycle:

	Total active energy(kWh) Total=Import+ Export
	Import energy
	Export energy
	Total partial energy (resettable kWh) Total=Import+ Export
	Import partial energy (resettable import kWh)
	export partial energy (resettable export kWh)
	Total Power

Imp 00.0 W	Import Power
Exp 00.0 W	Export Power

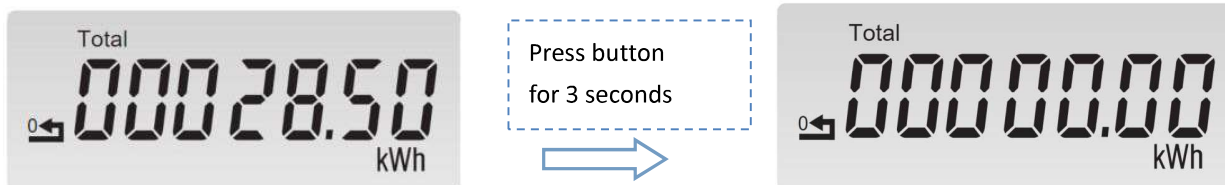
Note:SDM72D has no button – it only displays total active energy.

3.4 Resetting Partial Energy (SDM72DR and SDM72Bi)

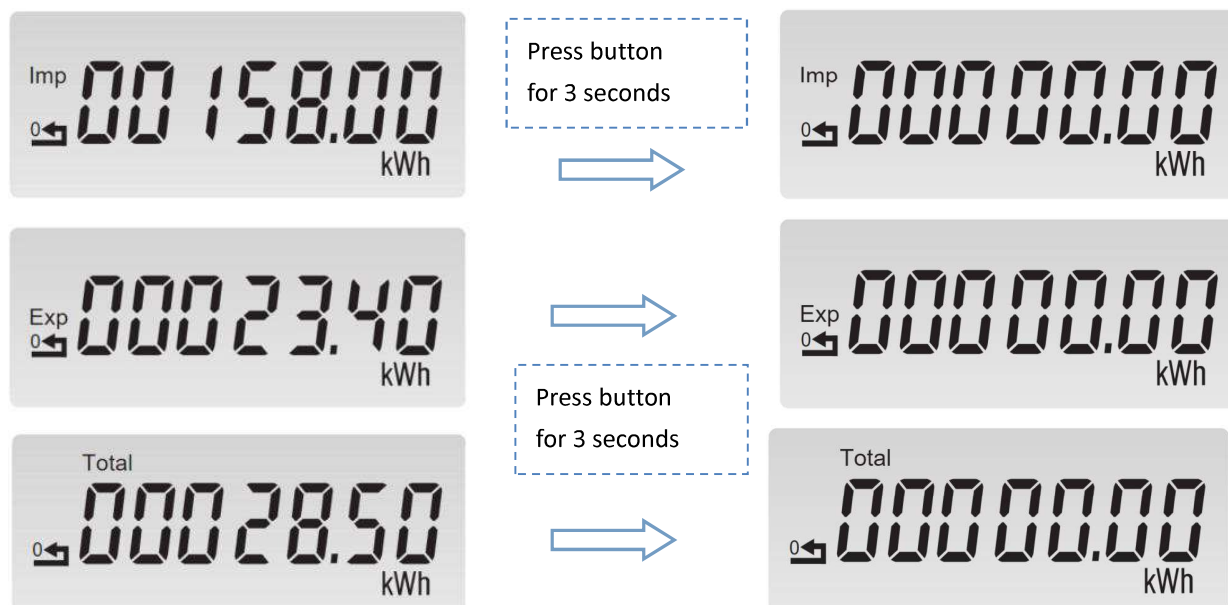


The button  can be used to reset the partial energy. Pressing the button for 3 seconds, the partial energy will be reset to zero.

SDM72DR:



SDM72Bi:



Chapter 4. Declaration of Conformity (For MID meter only)

We, Zhejiang Eastron Electronic Co., Ltd. declares under our sole responsibility as the manufacturer that the three phase multi-function electrical energy meter SDM72 series correspond to the production model described in the EU-type examination certificate and the requirements of the Directive 2014/32/EU.

Type examination certificate number No. T12831.

Identification number of the Notified Body: 0598

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

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SDM72D-M Modbus protocol V1.0

Input Register, function code 04

Input registers are used to indicate the present values of the measured and calculated electrical quantities. Each parameter is held in two consecutive 16 bit register. The following table details the 3X register address, and the values of the address bytes within the message. A (*) in the column indicated the parameter is valid for the particular wiring system, Any parameter with a cross (X) will return the value zero. Each parameter is held in the 3X registers. Modbus Protocol function code 04 is used to access all parameters.

For example, to request:	Amps 1	Start address = 0006
		No.of registers = 0002
	Amps 2	Start address = 0008
		No. Of register = 0002

Each request for data must be restricted to 30 parameters or less. Exceeding the 30 parameter limit will cause a Modbus Protocol exception code to be returned.

Address (Register)	Input Register Parameter				Modbus Protocol Start Address Hex	
	Description	Length (bytes)	Data Format	Units	Hi Byte	Lo Byte
30001	Phase 1 line to neutral volts.	4	Float	V	00	00
30003	Phase 2 line to neutral volts.	4	Float	V	00	02
30005	Phase 3 line to neutral volts.	4	Float	V	00	04
30007	Phase 1 current.	4	Float	A	00	06
30009	Phase 2 current.	4	Float	A	00	08
30011	Phase 3 current.	4	Float	A	00	0A
30013	Phase 1 active power.	4	Float	W	00	0C
30015	Phase 2 active power.	4	Float	W	00	0E
30017	Phase 3 active power.	4	Float	W	00	10
30019	Phase 1 apparent power.	4	Float	VA	00	12
30021	Phase 2 apparent power.	4	Float	VA	00	14
30023	Phase 3 apparent power.	4	Float	VA	00	16
30025	Phase 1 reactive power.	4	Float	VAR	00	18
30027	Phase 2 reactive power.	4	Float	VAR	00	1A
30029	Phase 3 reactive power.	4	Float	VAR	00	1C
30031	Phase 1 power factor (1).	4	Float	None	00	1E
30033	Phase 2 power factor (1).	4	Float	None	00	20
30035	Phase 3 power factor (1).	4	Float	None	00	22
30043	Average line to neutral volts.	4	Float	V	00	2A
30047	Average line current.	4	Float	A	00	2E

30049	Sum of line currents.	4	Float	A	00	30
30053	Total system power.	4	Float	W	00	34
30057	Total system volt amps.	4	Float	VA	00	38
30061	Total system VAR.	4	Float	VAr	00	3C
30063	Total system power factor (1).	4	Float	None	00	3E
30071	Frequency of supply voltages.	4	Float	Hz	00	46
30073	Import active energy	4	Float	kWh	00	48
30075	Export active energy	4	Float	kWh	00	4A
30201	Line 1 to Line 2 volts.	4	Float	V	00	C8
30203	Line 2 to Line 3 volts.	4	Float	V	00	CA
30205	Line 3 to Line 1 volts.	4	Float	V	00	CC
30207	Average line to line volts.	4	Float	V	00	CE
30225	Neutral current.	4	Float	A	00	E0
30343	Total active Energy (2)	4	Float	kWh	01	56
30345	Total reactive energy	4	Float	kVArh	01	58
30385	resettable total active energy	4	Float	kWh	01	80
30389	resettable import active energy	4	Float	kWh	01	84
30391	resettable export active energy	4	Float	kWh	01	86
30397	Net kWh (Import - Export)	4	Float	kWh	01	8C
31281	Total import active power	4	Float	W	05	00
31283	Total export active power	4	Float	W	05	02

Instruction:

(1) : The power factor has its sign adjusted to indicate the direction of the current. Positive refers to forward current, negative refers to reverse current.

(2) : Total active energy equals to import + export.

Holding Register, function code 03 / 10

Holding register are used to store and display instrument configuration settings. All holding registers not listed in the table below should be considered as reserved for manufacturer use and no attempt should be made to modify their values.

The holding register parameters may be viewed or changed using the Modbus Protocol. Each parameter is held in two consecutive 4X registers. Modbus Protocol Function Code 03 is used to read the parameter and Function code 10 is used to write. Write only to one parameter per message.

Address Register	Parameter	Modbus Protocol Start Address Hex	Valid range	Mode
------------------	-----------	-----------------------------------	-------------	------

		High Byte	High Byte		
40011	System Type	00	0A	Write system type: 1 = 1P2W; 3 = 3P4W,(default); Length : 4 byte Data Format : Float (KPPA is asked)	r/w
40013	Pulse width	00	OC	Range: 60, 100, 200, unit: ms, default 100. Note: If pulse output =1000imp/kWh, then pulse width is fixed at 35ms, and cannot be adjusted. Length : 4 byte Data Format : Float	r/w
40015	Key Parameter Programming Authorization (KPPA)	00	0E	Read: to get the status of the KPPA 0 = not authorized; 1 = authorized Write the correct password to get KPPA, enable to program key parameters. Length : 4 byte Data Format : Float	r/w
40019	Parity and stop bit	00	12	Write the network port parity/stop bits for MODBUS Protocol, where: 0 = One stop bit and no parity, default. 1 = One stop bit and even parity. 2 = One stop bit and odd parity. 3 = Two stop bits and no parity. Length : 4 byte Data Format : Float	r/w
40021	Modbus address	00	14	Write the network port node Address: 1 to 247 for MODBUS Protocol, default 1. Length : 4 byte Data Format : Float	r/w
40023	Pulse constant	00	16	Option: 0~3, 默认0 0 : 1000 imp/kWh 1 : 100 imp/kWh 2: 10 imp/kWh 3 : 1 imp/kWh Note: If pulse output =1000imp/kWh, then pulse width is fixed at 35ms, and cannot be adjusted. Length : 4 byte Data Format : Float	r/w
40025	Password	00	18	Read: to get the password of the meter Write: to program the new password of the meter Default 1000 Length : 4 byte Data Format : Float	r/w
40029	Network Baud Rate	00	1C	Write the network port baud rate for MODBUS Protocol, where: 0 = 2400 baud. 1 = 4800 baud.	r/w

				2 = 9600 baud, default. 3 = 19200 baud Length : 4 byte Data Format : Float	
40057	Current direction	00	38	Default 0 0 = L1Frd, L2Frd, L3Frd 7 = L1 Rev, L2 Rev, L3 Rev Length : 4 byte Data Format : Float	r/w
40059	Automatic Scroll Display Time	00	3A	Default 0, second Range 0~60 Length : 4 byte Data Format : Float	r/w
40061	Backlit time	00	3C	Default 60, min Range 0~121, 0 means backlit always on , 121 means backlit always off Length : 4byte Data Format : Float	r/w
40087	Pulse 1 Energy Type	00	56	Pulse 1 Energy Type: 1: import active energy 2: total active energy, (default) 4: export active energy Length : 4 byte Data Format : Float	r/w
461457	Reset historical data	F0	10	00 03 = reset energy info Length : 2 byte Data Format: Hex	wo
464513	Serial number	FC	00	Serial number Length : 4 byte Data Format : unsigned int32 Note: Only read	ro
464515	Meter code	FC	02	Meter code SDM72D-M= 00 89 Length : 2 byte Data Format : Hex Note: Only read	ro



EU-type examination certificate

Number **T12831** revision 1
Project number 3769733
Page 1 of 1

Issued by

NMi Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect
to conformity assessment procedures mentioned in article 17 of Directive
2014/32/EU, after having established that the measuring instrument meets
the applicable requirements of Directive 2014/32/EU, to:

Manufacturer

Zhejiang Eastron Electronic Co., Ltd.
No.52, Dongjin Road, Nanhu
Jiaxing, Zhejiang
China

Measuring instrument A static **Active Electrical Energy Meter**

Type : SDM72
Manufacturer's mark or name : Eastron
Reference voltage : 3x230/400 V; 230 V
Reference current : 10 A
Destined for the measurement of : electrical energy, in a
- three-phase four-wire network
- single-phase two-wire network
Accuracy class : A or B
Environment classes : M1 / E2
Temperature range : -40 °C / +70 °C

Further properties are described in the annexes
- Description T12831 revision 1
- Documentation folder T12831-2

Valid until

2 December 2034

Initially issued

2 December 2024

Remark

This version replaces the earlier version including the documentation
folder.

Issuing Authority

NMi Certin B.V., Notified Body number 0122
20 December 2024

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this certificate.



1 General information about the instrument

All properties of the static active electrical energy meter, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential parts

Description	Document	Remarks
measuring sensor	12831/0-02, 12831/0-03	ZR-FL-200B-009A / ZR-FL-200C-009B
printed circuit board	12831/0-12, 12831/0-13 12831/0-14, 12831/0-15 12831/0-16, 12831/0-17	All parts of the printed circuit boards are essential, except the components which are related to parts as described in paragraph 1.4 or 1.6.

1.2 Essential characteristics

- 1.2.1 See EU-type examination certificate T12831 revision 1 and the characteristics mentioned below.
- 1.2.2 Approved meter types : SDM72 (SDM72D-M, SDM72D-M-2T, SDM72D, SDM72DR, SDM72BI)
An explanation of all type designations is presented in document no. 12831/0-07.
- 1.2.3 Frequency : 50 Hz
- 1.2.4 Meter constant : 1000 imp./kWh
- 1.2.5 Number of registers : 2 registers
- 1.2.6 Error messages : 12831/0-18
- 1.2.7 Registration method : The following registration methods are allowed:
- 1.2.8 Phase sequence : the meter is not sensitive to the direction of the applied phase sequence.
A specific symbol is stated on the nameplate.
- 1.2.9 Export energy : the meter is capable of measuring energy in 2 directions.
- 1.2.10 Software specification (refer to WELMEC 7.2):
- Software type P;
 - Risk Class C;
 - Extension L, T while extensions O, D and S are not applicable.

Software version	Identification number (checksum)	Remarks
1.04	7C58B369	SDM72D-M
1.04	A2FCE045	SDM72D-M-2T
1.04	3B79F82F	SDM72D
1.04	C7A62BBC	SDM72DR



Description

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Software version	Identification number (checksum)	Remarks
1.04	54E453DF	SDM72BI

1.3 Essential shapes

- 1.3.1 The nameplate is bearing at least, good legible, the information as mentioned in the regulations on energy meters. An example of the markings is shown in document no. 12831/0-04.
- 1.3.2 Sealing: see chapter 2.
- 1.3.3 The registration observation is executed by means of a LED.

1.4 Conditional parts

- 1.4.1 Terminal block
The connections for the current cables on the terminal block have a diameter of at least 7 mm. The cables are connected with the terminal block via 1 screw. See documents no. 12831/0-01, 12831/0-08, 12831/0-09 and 12831/0-10.
- 1.4.2 Housing
The meter has got a dustproof housing, which has sufficient tensile strength. The cover is made of synthetic material. An example of the housing is presented in document no. 12831/0-01 and 12831/0-05.
- 1.4.3 Terminal cover
The terminal cover is made of synthetic material.
- 1.4.4 Register
The quantity of measured energy is presented by means of a display with at least 6 elements. The way of presentation is described in document no. 12831/0-11.
For test purposes an indication with a least significant element of at least 0,01 kWh, can be arranged via RS485 Modbus.
- 1.4.5 RS485 Modbus communication
The meter is provided with RS485 Modbus communication. Via the communication no legally relevant data can be altered.

1.5 Conditional characteristics

- 1.5.1 Maximum current:
smaller than or equal to 100 A, and at least 5 times higher than the reference current.

Terminal block:

Maximum current	Document no.	Remarks
100 A	12831/0-01, 12831/0-08, 12831/0-09, 12831/0-10	

1.5.2 Minimum current: 0.5 A

1.6 Non-essential parts

1.6.1 Pulse output

2 Seals

Both screws of the meter cover are sealed.
An example of the sealing is presented in document no. 12831/0-06.

3 Conditions for conformity assessment according to module D or F

The influence factors for temperature, frequency and voltage, which are necessary to perform the conformity assessment according to module D or F, are presented in Annex 1, belonging to this EU-type examination certificate.
Based on the WELMEC 11.1, section 2.4.6, the sum of the square values is presented

Influence factors for temperature, frequency and voltage

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The values depicted in the table below present the root sum square values per load point, determined via the following formula:

$$\delta e(T, U, f) = \sqrt{\delta e^2(T, I, \cos \varphi) + \delta e^2(U, I, \cos \varphi) + \delta e^2(f, I, \cos \varphi)}$$

with:

- $\delta e(T, I, \cos \varphi)$ = the additional percentage error due to the variation of the temperature at a certain load;
- $\delta e(U, I, \cos \varphi)$ = the additional percentage error due to the variation of the voltage at the same load;
- $\delta e(f, I, \cos \varphi)$ = the additional percentage error due to the variation of the frequency at the same load.

Current	Power factor	-40°C [%]	-25°C [%]	-10°C [%]	+5°C [%]	+23°C [%]	+40°C [%]	+55°C [%]	+70°C [%]
I _{min}	1	1,1	0,8	0,6	0,4	0,3	0,3	0,5	0,6
I _{tr}	1	1,0	0,8	0,5	0,3	0,1	0,2	0,4	0,6
	0,5 ind.	1,0	0,8	0,5	0,3	0,2	0,2	0,4	0,6
	0,8 cap.	1,1	0,8	0,5	0,3	0,1	0,2	0,4	0,5
I _{tr} phase R	1	1,1	0,8	0,5	0,3	0,2	0,3	0,4	0,6
	0,5 ind.	0,9	0,7	0,5	0,3	0,3	0,3	0,4	0,6
I _{tr} phase S	1	1,1	0,8	0,6	0,4	0,2	0,3	0,4	0,6
	0,5 ind.	1,1	0,9	0,6	0,4	0,3	0,3	0,5	0,6
I _{tr} phase T	1	0,9	0,7	0,4	0,3	0,2	0,2	0,4	0,5
	0,5 ind.	1,1	0,9	0,6	0,4	0,2	0,3	0,4	0,6
10 I _{tr}	1	1,0	0,8	0,5	0,3	0,0	0,2	0,4	0,6
	0,5 ind.	1,0	0,7	0,5	0,3	0,1	0,2	0,4	0,6
	0,8 cap.	1,0	0,8	0,5	0,3	0,0	0,2	0,4	0,5
10 I _{tr} phase R	1	1,1	0,8	0,6	0,4	0,2	0,3	0,4	0,6
	0,5 ind.	1,0	0,7	0,5	0,4	0,3	0,3	0,4	0,5
10 I _{tr} phase S	1	1,1	0,8	0,5	0,4	0,2	0,3	0,4	0,6
	0,5 ind.	1,1	0,8	0,5	0,4	0,2	0,3	0,4	0,6
10 I _{tr} phase T	1	0,9	0,6	0,4	0,3	0,0	0,1	0,3	0,5
	0,5 ind.	1,1	0,8	0,6	0,4	0,2	0,3	0,5	0,6
I _{max}	1	1,0	0,8	0,6	0,4	0,3	0,4	0,5	0,6
	0,5 ind.	1,0	0,8	0,6	0,5	0,4	0,4	0,5	0,7
	0,8 cap.	1,1	0,9	0,7	0,6	0,5	0,5	0,6	0,7
I _{max} phase R	1	0,9	0,8	0,7	0,7	0,7	0,8	0,9	1,0
	0,5 ind.	1,1	1,0	0,9	0,8	0,8	0,9	0,9	1,0
I _{max} phase S	1	1,0	0,8	0,7	0,6	0,6	0,7	0,8	0,9
	0,5 ind.	1,1	1,0	0,9	0,8	0,8	0,8	0,9	1,0
I _{max} phase T	1	0,8	0,7	0,6	0,5	0,4	0,5	0,6	0,7
	0,5 ind.	1,0	0,8	0,7	0,6	0,5	0,6	0,7	0,8

Note: relevant values can be taken in case of single-phase two-wire applications.

**HTW**

Test Verification of Conformity

Certificate No.: CTE25030165

Date: Mar. 26, 2025

In accordance with the following Applicable Directives:

2014/30/EU

Electromagnetic Compatibility

The equipment, as described herewith, was tested pursuant to applicable test procedure and complies with the requirements of:

EN IEC 61326-1: 2021 EN IEC 61326-2-3: 2021

The test results are traceable to the international or national standards.

Applicant: Zhejiang Eastron Electronic Co., Ltd

NO 52, Dongjin Road, Nanhu, Jiaxing, Zhejiang, China

Manufacturer: Zhejiang Eastron Electronic Co., Ltd

NO 52, Dongjin Road, Nanhu, Jiaxing, Zhejiang, China

EUT Name: Single and Three phase Energy Meter

Model number: SDM72D-M

Listed Model(s): SDM72D-M-2T, SDM72D, SDM72DR, SDM72BI, SDM72MB, SDM72MB-2T, SDM72-WL, SDM72D-M-1, SDM72D-M-2

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

Tel: 86-755-26715499

E-mail: cs@szhtw.com.cn

Website: Http://www.szhtw.com.cn



Note:

The certification is only valid for the equipment and configuration described, in conjunction with the test data detailed above.

The CE mark as shown beside can be used, under the responsibility of the manufacturer, after completion of an EC Directive of Conformity and compliance with all relevant EC Directive.

For and on behalf of

Shenzhen Huatongwei International Inspection Co., Ltd.

Authorized by:



Test Verification of Conformity

Certificate No.: CTE25040040

Date: 2025-04-08

In accordance with the following Applicable Directives:

2014/35/EU

Low Voltage Devices

The equipment, as described herewith, was tested pursuant to applicable test procedure and complies with the requirements of:

EN 61010-1:2010+A1:2019

EN IEC 61010-2-030:2021+A11:2021

The test results are traceable to the international or national standards.

Applicant: Zhejiang Easton Electronic Co., Ltd.

No. 52, Dongjin Road, Nanhu, Jiaxing, Zhejiang, China

Manufacturer: Zhejiang Easton Electronic Co., Ltd.

No. 52, Dongjin Road, Nanhu, Jiaxing, Zhejiang, China

EUT Name: Single and Three phase Energy Meter

Model number: SDM72D-M

Listed Model(s): SDM72D-M-2T, SDM72D, SDM72DR, SDM72BI, SDM72MB, SDM72MB-2T, SDM72-WL, SDM72D-M-1, SDM72D-M-2

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Huatongwei 101, No.006, Keji south 12th Road, High-tech zone community, Yuehai Street, Nanshan District, Shenzhen, Guangdong, China

Tel: 86-755-26715499

E-mail: cs@szhtw.com.cn

Website: [Http://www.szhtw.com.cn](http://www.szhtw.com.cn)



Note:

The certification is only valid for the equipment and configuration described, in conjunction with the test data detailed above.

For and on behalf of

Shenzhen Huatongwei International Inspection Co., Ltd.

Authorized by:

Tiger Jiang

