EU Type Examination Certificate Number: **0120/SGS0142**

Zhejiang Eastron Electronic Co., Ltd.

No.52, Dongjin Road
Nanhu
Jiaxing
Zhejiang
China

Instrument Identification:
SDM 630M CT Series

Polyphase, Active Import/ Export kWh, Indoor, Multi-Function, Transformer Operated, Electricity Meter

Instrument Traceable Number
0120/SGS0142

has been assessed and certified as meeting the requirements of

EU Directive 2014/32/EU

on Measuring Instruments Annex II, Module B

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex V of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F

This certificate is valid until 9th March 2024
Issue 2

Certification is based on report number(s) EMA174647/1/MID dated 30th January 2014
EMA174647/1/MID/iss 2 dated 9th October 2019
EMA281302/1 dated 14th January 2022

Authorised Signature

Mikko Välimäki

SGS Fimko OY, Notified Body 0598
Takomotie 8, FI-00380 Helsinki, Finland
t +358 9 6963 61 www.sgs.fi

1. Technical Data

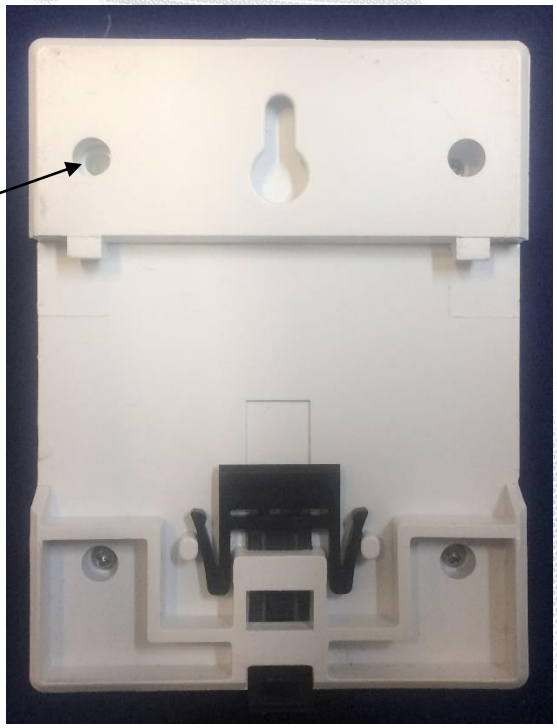
Manufacturer	Zhejiang Eastron Electronic Co., Ltd.
Meter Type	SDM630MCT V2, SDM630MCT–Mbus V2, SDM630MCT-2T V2, SDM630MCT-E V2, SDM630MCT-DI V2, SDM630MCT-2T-Mbus, SDM630MCT-MT V2, SDM630MCT-LoRa
Voltage Rating *(Un)*	3x230/400V
Current Rating *(Imin – Iref (Imax))*	0.05-5(6)A
Frequency *(Fn)*	50Hz
Active Accuracy Class *(kWh)*	B or C (kWh)
Type of circuit	3p4w, 3p3w, 1p2w
Temperature Range	-25°C to +55°C or -40°C to +70°C
Software/ Firmware Version No's	SDM630MCT V2: V1.3 SDM630MCT-2T V2: V1.4 SDM630MCT–Mbus V2: V1.5 SDM630MCT-E V2: V1.6 SDM630MCT-DI V2: V1.8 SDM630MCT-2T-Mbus: V1.9 SDM630MCT-MT V2: V1.7 SDM630MCT-LoRa: V3.4
CRC Checksum No's	SDM630MCT V2: 0x0000D5C8 SDM630MCT-2T V2: 0x0000D279 SDM630MCT-Mbus V2 : 0x00001516 SDM630MCT-E V2: 0x000080FA SDM630MCT-Di V2 : 0x005D2CB2 SDM630MCT-2T-Mbus: 0x0000147B SDM630MCT-MT V2: 0x00597DE9 SDM630MCT -LoRa: 0x7227CB
Identification Location	LCD
Bill of Materials No's	SDM630MCT V2 : DH-JS-150046-1.4 SDM630MCT-Mbus V2 : DH-JS-160008-1.4 SDM630MCT-2T V2 : DH-JS-160004-1.4 SDM630MCT-E V2: DH-JS-150046-1.4 SDM630MCT-DI V2 : DH-JS-190005-1.0 SDM630MCT-2T-Mbus : DH-JS-190019-V1.1 SDM630MCT-MT V2 : DH-JS-190004 V1.1 SDM630MCT-LoRa : DH-JS-200013 V1.0
IP Rating	IP51
Insulation Protective Class	Class II
LED Pulse Constant	3200imp/ kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	2 x Wire & Crimp

	EU-Type Examination Certificate Number:	
	0120/SGS0142	
	Issue Number: 2	Dated: 03 October 2023

Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	LCD
Terminal Arrangement(s)	DIN
Location of Manufacturers Address	Side of meter

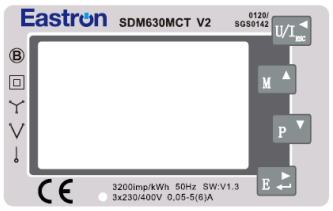
2. Photograph of Meter and Sealing Plan





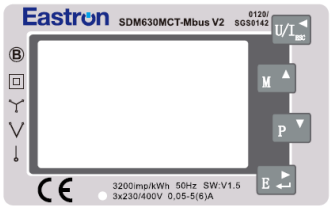
Main cover sealing point

3. Examples of Nameplates



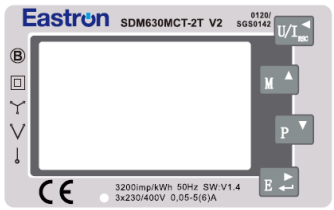
Eastron
SDM630MCT V2 0120/SGS0142
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3200imp/kWh EN50470-1/3 SW:V1.3 CAT III
UKCA M23 0120 CE M23 0598 3K6
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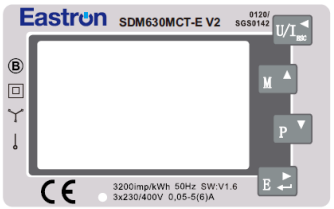
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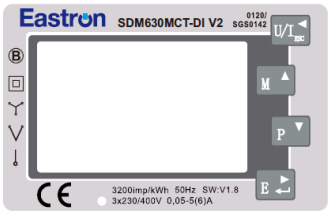
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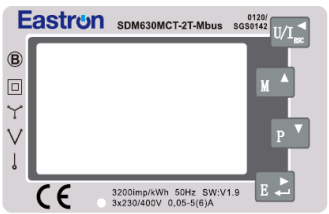
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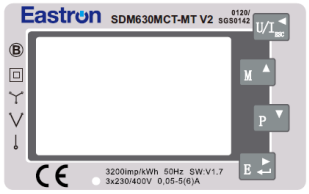
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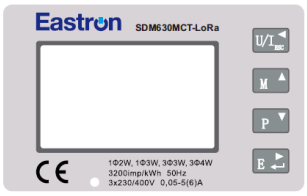
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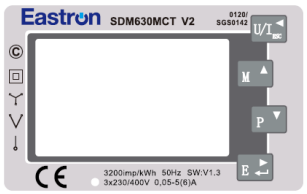
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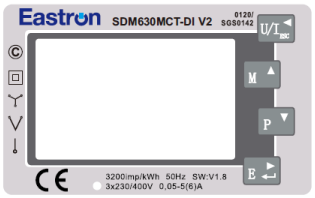
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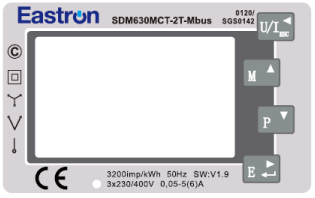
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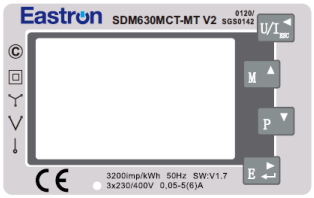
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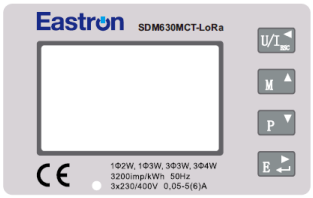
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4. Calculation of the composite error/ MPE

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

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

where

$\delta e(T, I, \cos\varphi)$ = Additional error due to variation of the temperature at the same load
$\delta e(U, I, \cos\varphi)$ = Additional error due to variation of the voltage at the same load
$\delta e(f, I, \cos\varphi)$ = Additional error due to variation of the frequency at the same load

		Influence Factors for temperature, frequency and voltage							
Current	**PF Cos**	-40°C	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
Imin	1.0	*1.01*	*0.85*	*0.50*	*0.07*	*0.12*	*0.13*	*0.15*	*0.11*
Itr	1.0	*1.07*	*0.91*	*0.54*	*0.25*	*0.10*	*0.14*	*0.16*	*0.12*
10Itr	1.0	*1.18*	*0.85*	*0.50*	*0.23*	*0.03*	*0.09*	*0.12*	*0.14*
Imax	1.0	*1.19*	*0.86*	*0.51*	*0.24*	*0.05*	*0.08*	*0.12*	*0.16*
Itr	0.5ind	*1.34*	*1.08*	*0.70*	*0.37*	*0.16*	*0.16*	*0.17*	*0.33*
10Itr	0.5ind	*1.15*	*0.79*	*0.43*	*0.17*	*0.09*	*0.13*	*0.18*	*0.16*
Imax	0.5ind	*1.17*	*0.79*	*0.43*	*0.18*	*0.10*	*0.15*	*0.17*	*0.21*
Itr	0.8cap	*1.12*	*0.85*	*0.48*	*0.21*	*0.06*	*0.10*	*0.15*	*0.12*
10Itr	0.8cap	*1.14*	*0.87*	*0.51*	*0.24*	*0.02*	*0.06*	*0.11*	*0.13*
Imax	0.8cap	*1.16*	*0.89*	*0.51*	*0.26*	*0.03*	*0.06*	*0.10*	*0.14*
L1									
Itr	1.0	*1.26*	*0.92*	*0.38*	*0.20*	*0.11*	*0.13*	*0.13*	*0.15*
10Itr	1.0	*1.17*	*0.85*	*0.48*	*0.22*	*0.05*	*0.12*	*0.17*	*0.17*
Imax	1.0	*1.19*	*0.87*	*0.50*	*0.24*	*0.05*	*0.10*	*0.16*	*0.13*
Itr	0.5ind	*1.01*	*0.90*	*0.48*	*0.17*	*0.31*	*0.21*	*0.13*	*0.14*
10Itr	0.5ind	*0.85*	*0.88*	*0.50*	*0.22*	*0.05*	*0.15*	*0.16*	*0.12*
Imax	0.5ind	*0.87*	*0.88*	*0.50*	*0.24*	*0.05*	*0.10*	*0.14*	*0.18*
L2									
Itr	1.0	*0.98*	*0.86*	*0.51*	*0.23*	*0.04*	*0.09*	*0.13*	*0.17*
10Itr	1.0	*1.00*	*0.82*	*0.47*	*0.21*	*0.04*	*0.08*	*0.12*	*0.14*
Imax	1.0	*1.01*	*0.83*	*0.48*	*0.22*	*0.04*	*0.08*	*0.11*	*0.15*
Itr	0.5ind	*0.79*	*1.03*	*0.61*	*0.26*	*0.14*	*0.22*	*0.23*	*0.20*
10Itr	0.5ind	*1.23*	*0.69*	*0.35*	*0.10*	*0.15*	*0.21*	*0.24*	*0.21*
Imax	0.5ind	*1.20*	*0.67*	*0.32*	*0.06*	*0.18*	*0.24*	*0.28*	*0.26*
L3									
Itr	1.0	*1.29*	*0.87*	*0.50*	*0.24*	*0.05*	*0.10*	*0.12*	*0.16*
10Itr	1.0	*1.27*	*0.85*	*0.48*	*0.22*	*0.04*	*0.09*	*0.11*	*0.15*
Imax	1.0	*1.27*	*0.84*	*0.48*	*0.22*	*0.05*	*0.09*	*0.12*	*0.16*
Itr	0.5ind	*2.02*	*0.97*	*0.56*	*0.27*	*0.09*	*0.13*	*0.13*	*0.20*
10Itr	0.5ind	*1.67*	*0.83*	*0.47*	*0.21*	*0.06*	*0.08*	*0.11*	*0.16*
Imax	0.5ind	*1.66*	*0.83*	*0.47*	*0.21*	*0.04*	*0.09*	*0.11*	*0.15*

5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
SDM 630MCT	0.05-5(6)A – Polyphase, Active Import/Export kWh, Multifunction, Transformer Operated (Terminal 7 and 8 used as power output for next meter in daisy connection)
SDM 630MCT 2T	0.05-5(6)A – Polyphase, Active Import/Export kWh, Multifunction, Transformer Operated (Terminal 7 and 8 is used as signal input for two tariff shifting)
SDM 630MCT Mbus	0.05-5(6)A – Polyphase, Active Import/Export kWh, Multifunction, Transformer Operated, Mbus communication
SDM630MCT-E	0.05-5(6)A – Polyphase, Active Import/Export kWh, Multifunction, Transformer Operated
SDM630MCT-DI	0.05-5(6)A – Polyphase, Active Import/Export kWh, Multifunction, Transformer Operated. Digital inputs
SDM630MCT-2T-Mbus	0.05-5(6)A – Polyphase, Active Import/Export kWh, Multifunction, Transformer Operated, Mbus communication (Terminal 7 and 8 is used as signal input for two tariff shifting)
SDM630MCT-MT	0.05-5(6)A – Polyphase, Active Import/Export kWh, Multifunction, Multi-tariff, Transformer Operated, Modbus communication
SDM630MCT-LoRa	0.05-5(6)A – Polyphase, Single tariff, total active energy, resettable active energy, import active energy, export active energy, total reactive energy, import reactive energy, export reactive energy, active power, reactive power, voltage, current, frequency, power factor, power demand, LoRa communication.

Modifications to the meter(s) described according to approval No.**0120/SGS0142** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).

6. Document Revision History

Issue	Date	Comments
1	10/03/2014	Initial Issue
2	11/10/2016	SDM630MC -2T and SDM630MCT-Mbus added to approval
3	21/12/2018	SDM630MCT-E added to approval
4	08/08/2019	SDM630CT-DI, SDM630MCT-2T-Mbus, SDM630MCT-MT added to approval
5	31/10/2019	Meter accuracy improved to meet Class C limits
6	14/09/2020	SDM630MCT-LoRa added to approval
1	18/01/2022	Issue 1 for SGS Fimko NB 0598 The original approval certificate issued 10/03/2014 The modifications listed above were made prior to the transfer to SGS Fimko Temperature range extended to -40°C - +70°C
2	03/10/2023	Company address change to new address Nameplate and side nameplate change Add CRC information New BoM versions

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END OF CERTIFICATE