

EU Type Examination Certificate Number: 0120/ SGS0238

Aclara Meters S.L.

Polígono Industrial Ugaldeguren III, Par 27 48170 - Zamudio (Spain)

> Instrument Identification: SGM14**

Single Phase, Active Import/Export (kWh), Credit/ Pre-payment, Multi Rate, Electricity Meter

Instrument Traceable Number 0120/ SGS0238

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 31st July 2026 Issue 8

Certification is based on report number(s) EMA224778/1/MID dated 28th July 2016

Authorised Signature

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EU-Type Examination Certificate Number:

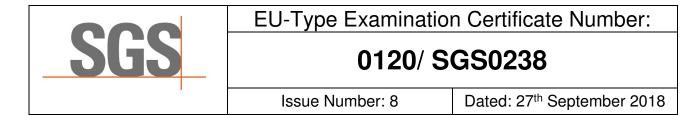
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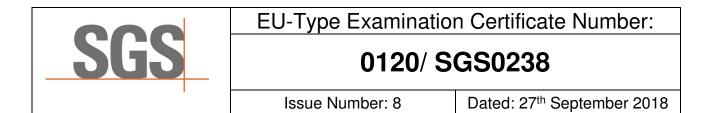
1. Technical Data

Manufacturer	Aclara	
Meter Type(s)	SGM1411, SGM 1412	
Voltage Rating (Un)	230V	
Current Rating (Imin – Iref (Imax))	0,5-10(100)A	
Frequency (Fn)	50Hz	
Active Accuracy Class (kWh)	A or B (kWh)	
Type of circuit	1p2w	
Temperature Range	-25°C to +55°C	
Software/ Firmware Version No's	Metrology Firmware V01.00.11 Application Firmware V4.1.4, V4.4.0, V4.8.0, V4.10.2	
CRC Checksum No.	0x37917DE7	
Identification Location	LCD	
Bill Of Materials No's 104X3540G001 Rev 104X3540G002 Rev 104X3540G002 Rev		
IP Rating	IP53	
Insulation Protective Class	Class II	
LED Pulse Constant	1000imp/ kWh	
Impulse Voltage Rating	6kV	
AC Voltage Rating	4kV	
Main Cover Sealing Type	Wire & Crimp	
Integrity of meter	Inaccessible without breaking seals	
Intended Location of the Meter	Indoor	
Type of Register	LCD	
Terminal Arrangement(s)	BS	
Location of Manufacturers Name and Address	Name Plate	

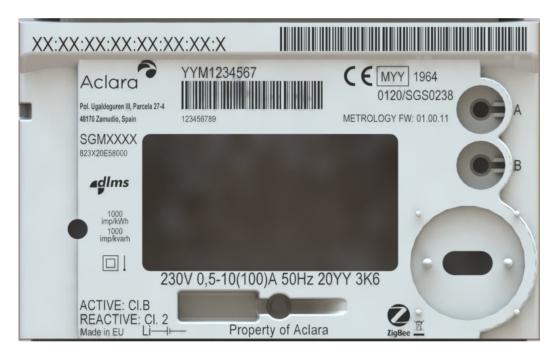


2. Photograph of Meter and Sealing Plan





3. Name-plate





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4. 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 table below represents the sum of the square values per load, determined via the following formula:-

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

where

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

Current	PF Cos	-25 <i>°</i> C	-10 <i>°</i> C	5°C	30 ℃	40 ℃	55 <i>°</i> C
Imin	1.0	0.74	0.54	0.26	0.19	0.40	0.73
ltr	1.0	0.78	0.55	0.32	0.13	0.29	0.64
10ltr	1.0	0.78	0.55	0.32	0.12	0.28	0.62
Imax	1.0	0.15	0.16	0.17	0.17	0.16	0.14
ltr	0.5ind	0.76	0.56	0.41	0.18	0.25	0.57
10ltr	0.5ind	0.72	0.52	0.29	0.17	0.34	0.62
Imax	0.5ind	0.19	0.20	0.23	0.21	0.20	0.18
ltr	0.8cap	0.77	0.58	0.33	0.08	0.27	0.56
10ltr	0.8cap	0.73	0.52	0.29	0.17	0.33	0.62
Imax	0.8cap	0.26	0.29	0.29	0.28	0.28	0.26

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5. Annex of Variants

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Product Variant Identification Details:

Type Designation	Description of meter
SGM1411	Single Phase, 230V, 0,5-10(100A, 100A Contactor
SGM1412	Single Phase, 230V, 0,5-10(100A, 100A Contactor, 2A Auxiliary Relay

Modifications to the meter(s) described according to approval No.**0120**/ **SGS0238** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).



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6. Document Revision History

Issue	Date	Comments
1	01/08/2016	Initial Issue
2	25/11/2016	Accuracy class corrected from B or C (kWh) to A or B (kWh)
3	25/04/2017	New BOM number
4	21/07/2017	Minor firmware revision update.
5	06/09/2017	New BOM revision due to change of terminal screw type
6	28/11/2017	New application firmware version V4.4.0
7	27/04/2018	New application firmware version V4.8.0
8	27/09/2018	New application firmware version V4.10.2

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