

EU Type Examination Certificate Number: 0120/SGS0186

Autometers Systems, Ltd.

4B Albany Road, Manchester, M21 0AW, United Kingdom.

Instrument Identification: A-100 Series HT-100

Instrument Traceable Number 0120/SGS0186

Single Phase, Active Import/ Export (kWh), Multifunction, Indoor, Electricity Meter

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 15th April 2025 Issue 2

Certification is based on report number(s) SHES141200649301 16th April 2015 EMA 202963/1 16th April 2015 EMA 204868/1 3rd June 2015

Authorised Signature

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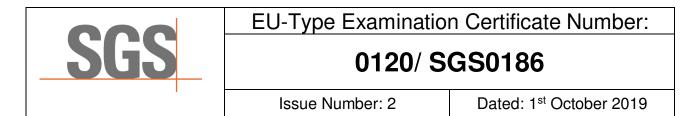
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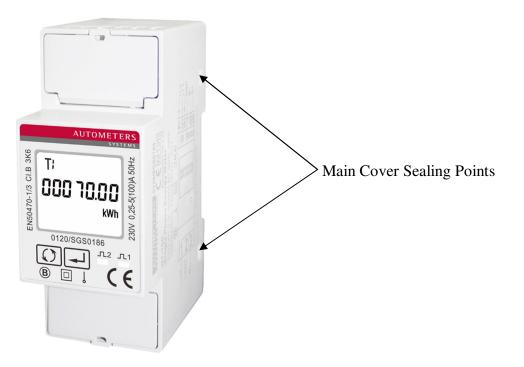
Dated: 1st October 2019

1. Technical Data

Manufacturer	Autometers Systems, Ltd.
Meter Type(s)	A-100MT, A-100M, A-100M-B, A-100P HT-100
Voltage Rating (Un)	230V
Current Rating (Imin – Iref (Imax))	0.25-5(100)A, 0.25-10(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 Version No.	V1.4
Identification Location	LCD
Bill Of Materials No.'s	SDM220-MT V1.5 SDM220-Modbus V1.5 SDM220-Mbus V1.5 SDM220-Pulse V1.5
IP Rating	IP51
Insulation Protective Class	Class II
LED Pulse Constant	1000imp/ kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	2 x Wire & Crimp
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	LCD
Location of Manufacturers Address	Nameplate & Documentation



2. Meter Sealing Points



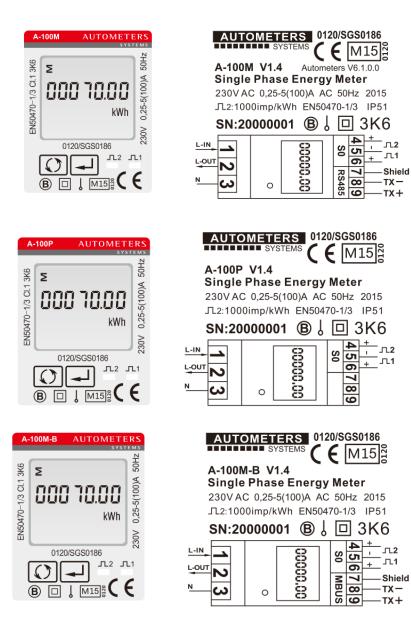


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3. Nameplates & Markings



	EU-Type Examination Certificate Number:		
SGS	0120/ S	GS0186	
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	Yes Systems C A-100MT V1.4 Autometers Single Phase Energy Mi 230V AC 0,25-5(100)A AC 50 JL:1000imp/kWh EN:20000001 B L-IN	eter Hz 2015	

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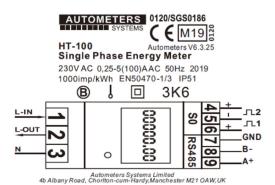
230V 0,25-5(100)A 50Hz

CE

HT-100

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EN50470-1/3 CI.B 3K6





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4. Influence factors for temperature, frequency and voltage

Current	PF Cos	-25℃	-10 <i>°</i> C	5℃	30 <i>°</i> C	40 <i>°</i> C	55 <i>°</i> C
Imin	1.0	0.30	0.28	0.25	0.23	0.24	0.23
ltr	1.0	0.17	0.15	0.16	0.13	0.13	0.13
10ltr	1.0	0.07	0.08	0.08	0.05	0.07	0.10
Imax	1.0	0.13	0.11	0.05	0.04	0.04	0.04
ltr	0.5ind	0.27	0.24	0.24	0.21	0.21	0.23
10ltr	0.5ind	0.16	0.16	0.17	0.16	0.16	0.17
Imax	0.5ind	0.06	0.04	0.05	0.11	0.11	0.09
ltr	0.8cap	0.24	0.24	0.22	0.19	0.19	0.19
10ltr	0.8cap	0.06	0.07	0.07	0.05	0.07	0.08
Imax	0.8cap	0.13	0.09	0.04	0.03	0.03	0.03

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table above 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
$\delta e(U, I, \cos \phi) =$	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



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5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
A-100MT:	Multi tariff, single phase, RS485 Modbus
A-100M:	Single tariff, single phase, RS485 Modbus
A-100M-B:	Single tariff, single phase, Mbus
A-100P:	Single tariff, single phase, Pulse
HT-100:	Multi tariff, single phase, RS485 Modbus

Modifications to the meter(s) described according to approval No.**0120**/ **SGS0186** 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	03/06/2015	Initial Issue
2	01/10/2019	Additional model HT-100 added to approval