



EU Type Examination Certificate Number: **0120/ SGS0031**

Secure Meters (Sweden) AB

Box 1006
SE 61129
Nyköping
Sweden

Instrument Identification

Sprint 300

Polyphase, Active Import, Multi-rate, Credit, Electricity Meter

Instrument Traceable Number

0120/ SGS0031

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 7th June 2019

Issue 4

Certification is based on report number(s) EMA124343 Dated 8th June 2009

Authorised Signature

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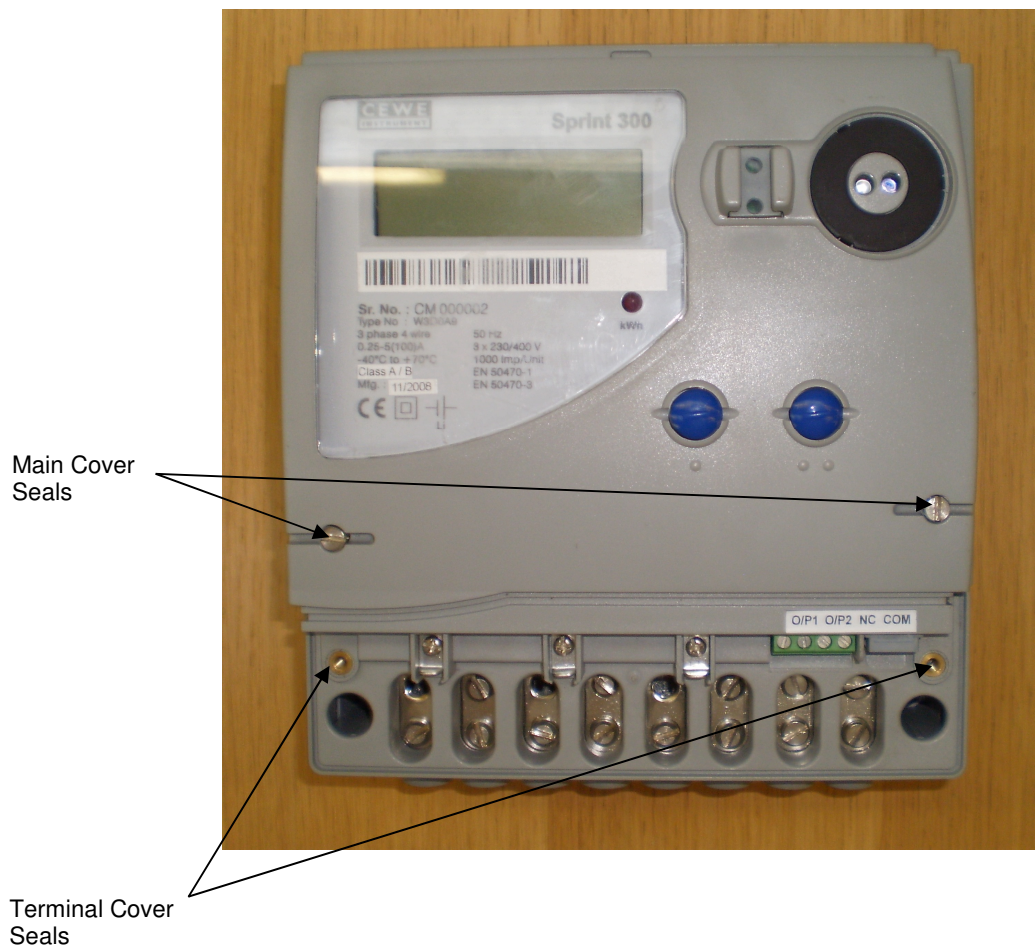
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1. Technical Data

Manufacturer	Secure Meters (Sweden) AB
Meter Type	Sprint 300
Voltage Rating (U_n)	3x230/400V
Current Rating (I_{min} – I_{ref} (I_{max}))	0,25-5(20)A 0,25-5(30)A 0,25-5(100)A 0,5-10(40)A 0,5-10(60)A 0,5-10(100)A 1-20(80)A 1-20(100)A
Frequency (F_n)	50Hz
Active Accuracy Class (kWh)	A or B (kWh)
Type of circuit	3p4w
Temperature Range	--40°C to +70°C
Software/ Firmware Version No	C200
Identification Location	LCD
Bill Of Materials Number	BOM_W3D0B9-A00
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	Wire & Crimp
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	Associated Documents

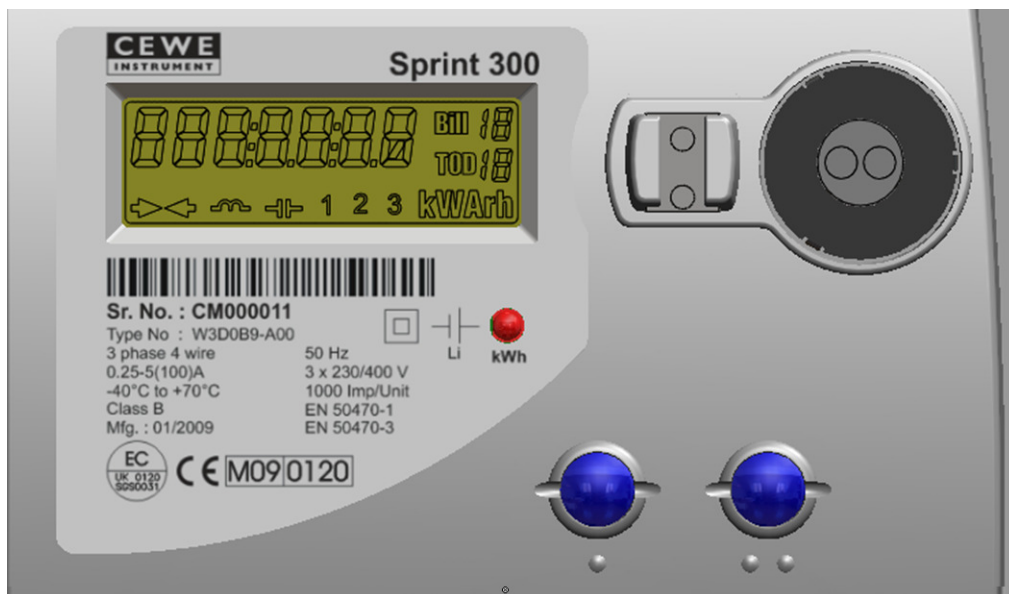
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2. Photograph of Meter and Sealing Plan



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3. Nameplate



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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:-

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

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

		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
I _{min}	1.0	0.44	0.43	0.28	0.21	0.18	0.22	0.34	0.40
I _{tr}	1.0	0.43	0.40	0.28	0.18	0.12	0.14	0.26	0.34
10I _{tr}	1.0	0.43	0.38	0.27	0.17	0.09	0.14	0.24	0.31
I _{max}	1.0	0.43	0.38	0.27	0.16	0.09	0.14	0.24	0.31
I _{tr}	0.5ind	0.69	0.54	0.41	0.27	0.14	0.20	0.23	0.26
10I _{tr}	0.5ind	0.79	0.71	0.50	0.33	0.06	0.17	0.20	0.21
I _{max}	0.5ind	0.79	0.69	0.50	0.32	0.14	0.17	0.21	0.24
I _{tr}	0.8cap	0.34	0.32	0.23	0.12	0.06	0.11	0.23	0.34
10I _{tr}	0.8cap	0.30	0.27	0.18	0.11	0.09	0.11	0.24	0.33
I _{max}	0.8cap	0.29	0.27	0.18	0.12	0.10	0.13	0.26	0.34

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5. Annex of Variants

Product Variant Identification Details:

Type Designation		Description of meter	
W3	Meter Type	Sprint 300	
	Configuration	3P 4W, Direct Current	
	Accuracy Class		
	0A	Class A	
	0B	Class B	
	Current Range I_{min}-I_{ref}(I_m)		
	1	0,5-10(60)A	
	2	0,25-5(30)A	
	3	0,5-10(100)A	
	5	1-20(100)A	
	6	0,5-10(40)A	
	7	0,25-5(20)A	
	8	1-20(80)A	
	9	0,25-5(100)A	
	Specification		
	-A00		
	Make	CEWE	
	Product	Sprint 300	
	Voltage	230V	
	Frequency	50Hz	
	Pulse Input	No	
	Pulse Output	2	
	Magnet Sensors	Yes	
	Battery and Super Cap	Battery	
	Backlight	Yes	
	No. of Measuring Elements	3	
	Non Volatile Memory (NVM)	96K	
	Optical Port (PACT/1107/ANSI)	1107	
	Max. Baud Rate on PACT/1107/ANSI	38400	
	RS232/ RS485	RS232 (RJ11 Connector)	
	Max. Baud Rate on RS232	38400	
	Priority port	RS232	
	SW UART	No	
	****Reading Support in Power off condition	No	
	Cover Open Detection	Yes	
	Terminal CoverOpen Detection	No	
	DC Immunity	No	
	Spark Immunity	No	
	IP Link	External	
	TBC/ETBC	ETBC	
	Hinge Option for Terminal Cover	No	
	Customer Specific	No	

Remark:**** Extended Base and Cover are applicable in case of battery support to read meter in Power off mode.

Modifications to the meter(s) described according to approval No.0120/ **SGS0031** 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	08/06/2009	Initial Issue
2	24/06/2009	Minor software version change
3	11/05/2011	Minor modification.
4	01/12/2017	Manufacturers name change from Cewe Instruments AB to Secure Meters (Sweden) AB. Issued on updated certificate template.

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