



EU Type Examination Certificate Number: **0120/ SGS0337**

Secure Meters (UK) Ltd

Secure House
Moorside Road
Winnall
Winchester
SO23 7RX

Instrument Identification:
Sprint 211 & Sprint 215

Polyphase, Active Import/Export (kWh), Electricity Meter

Instrument Traceable Number
0120/ SGS0337

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 for 10 years from 8th January 2018 until 7th January 2028
Issue 1

Certification is based on report number(s) EMA247818/1 dated 22nd December 2017

Authorised Signature

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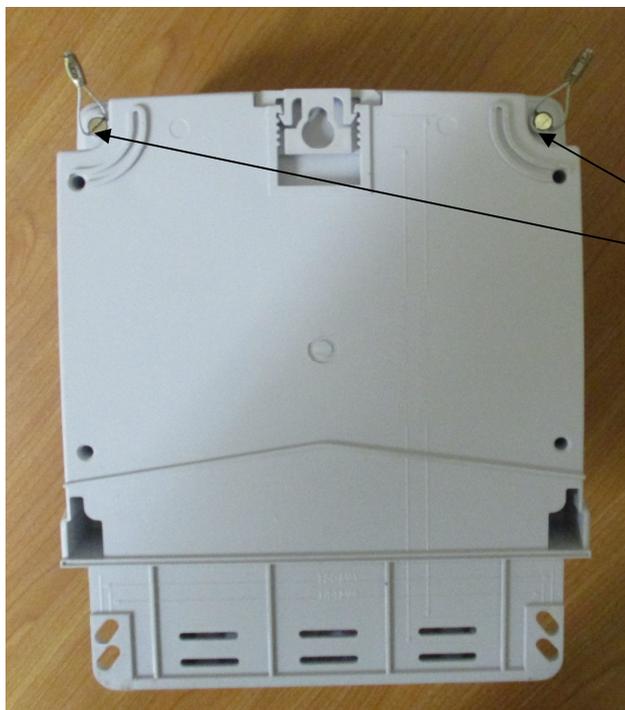
Dated: 8th January 2018**1. Technical Data**

Manufacturer	Secure Meters (UK)Ltd
Meter Type(s)	Sprint 215 & Sprint 211
Voltage Rating (U_n)	3x230/400 V
Current Rating (I_{min} – I_{ref} (I_{max}))	0.5 A – 10(100) A
Frequency (F_n)	50 Hz
Active Accuracy Class (kWh)	A or B (kWh)
Type of circuit	3p4w
Temperature Range	-40° C to +70° C
Software/ Firmware Version No	42.00
CRC Checksum	0x263F16BA
Identification Location	LCD
Bill Of Materials Number	MAX10U-845
Mechanical Environment	M1
Electromagnetic Environment	E2
IP Rating	IP51
Insulation Protective Class	Class II
LED Pulse Constant	1000 imp / kWh
Impulse Voltage Rating	6 kV
AC Voltage Rating	4 kV
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	Nameplate

2. Photograph of Meter and Sealing Plan



Main cover seals



Main cover seals



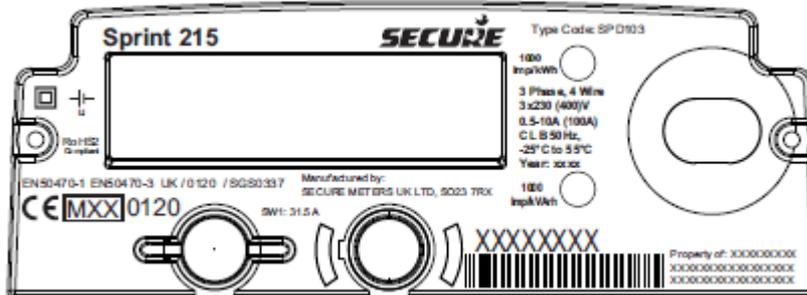
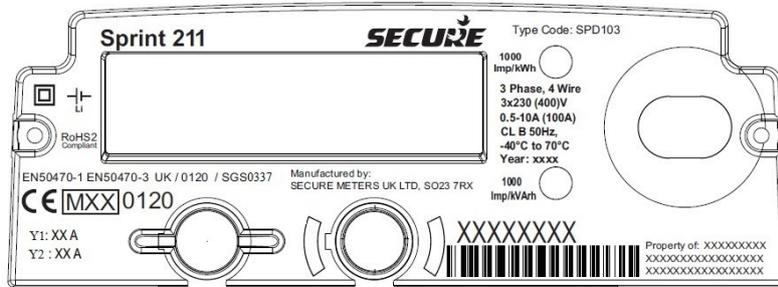
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0120/ SGS0337

Issue Number: 1

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3. Nameplates



	EU-Type Examination Certificate Number:	
	0120/ SGS0337	
	Issue Number: 1	Dated: 8 th January 2018

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



EU-Type Examination Certificate Number:

0120/ SGS0337

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Influence Factors for temperature, frequency and voltage

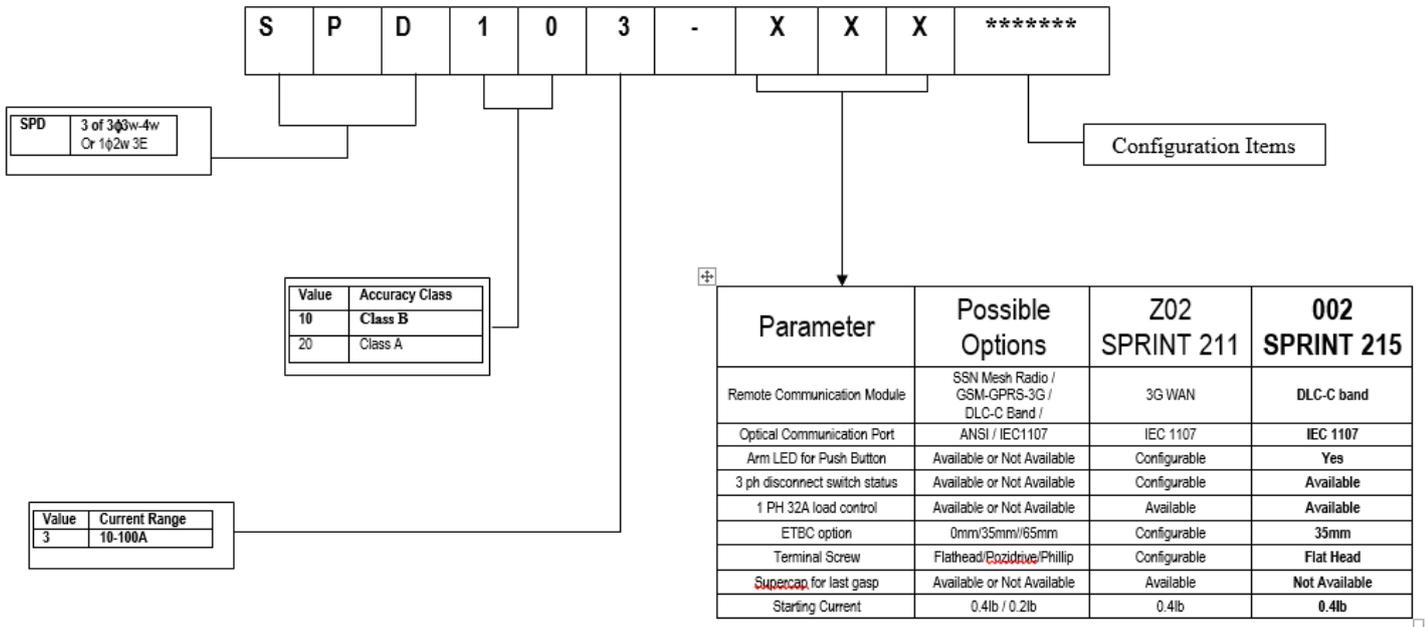
Current	PF Cos	-0.40°C	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
I _{min}	1.0	0.06	0.11	0.12	0.08	0.06	0.17	0.17	0.23
I _{tr}	1.0	0.06	0.10	0.11	0.08	0.06	0.16	0.21	0.28
10I _{tr}	1.0	0.07	0.13	0.13	0.11	0.04	0.13	0.20	0.31
I _{max}	1.0	0.07	0.12	0.13	0.10	0.03	0.13	0.19	0.31
I _{tr}	0.5ind	1.54	1.24	0.87	0.54	0.18	0.41	0.45	0.57
10I _{tr}	0.5ind	1.44	1.13	0.76	0.44	0.11	0.43	0.53	0.71
I _{max}	0.5ind	1.45	1.14	0.78	0.44	0.10	0.42	0.53	0.73
I _{tr}	0.8cap	0.51	0.31	0.16	0.08	0.03	0.05	0.08	0.10
10I _{tr}	0.8cap	0.48	0.28	0.13	0.05	0.05	0.04	0.07	0.15
I _{max}	0.8cap	0.51	0.30	0.14	0.05	0.04	0.03	0.07	0.14
						0.00	0.00	0.00	0.00
L1									
I _{tr}	1.0	0.07	0.12	0.13	0.11	0.06	0.15	0.27	0.23
10I _{tr}	1.0	0.07	0.11	0.12	0.10	0.05	0.11	0.20	0.28
I _{max}	1.0	0.04	0.10	0.10	0.09	0.04	0.12	0.20	0.30
I _{tr}	0.5ind	1.44	1.14	0.79	0.47	0.14	0.31	0.58	0.63
10I _{tr}	0.5ind	1.32	0.99	0.68	0.39	0.19	0.39	0.57	0.77
I _{max}	0.5ind	1.37	1.04	0.70	0.39	0.14	0.37	0.58	0.76
L2									
I _{tr}	1.0	0.06	0.10	0.09	0.02	0.06	0.14	0.20	0.26
10I _{tr}	1.0	0.09	0.12	0.12	0.10	0.04	0.10	0.19	0.31
I _{max}	1.0	0.07	0.12	0.11	0.09	0.03	0.11	0.21	0.30
I _{tr}	0.5ind	1.48	1.15	0.76	0.35	0.12	0.33	0.43	0.73
10I _{tr}	0.5ind	1.43	1.10	0.74	0.39	0.20	0.40	0.65	0.85
I _{max}	0.5ind	1.46	1.11	0.75	0.40	0.18	0.39	0.60	0.83
L3									
I _{tr}	1.0	0.15	0.17	0.15	0.13	0.08	0.14	0.26	0.27
10I _{tr}	1.0	0.13	0.17	0.15	0.10	0.05	0.13	0.24	0.38
I _{max}	1.0	0.13	0.17	0.16	0.11	0.04	0.12	0.24	0.37
I _{tr}	0.5ind	1.35	1.04	0.69	0.44	0.15	0.32	0.46	0.53
10I _{tr}	0.5ind	1.31	0.99	0.67	0.34	0.16	0.31	0.50	0.65
I _{max}	0.5ind	1.36	1.04	0.71	0.12	0.14	0.33	0.53	0.69

	EU-Type Examination Certificate Number:	
	0120/ SGS0337	
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5. Annex of Variants

Product Variant Identification Details:

CODIFICATION FOR THREE PHASE SPRINT 211, SPRINT 215 METER



Modifications to the meter(s) described according to approval No. **0120/ SGS0337** 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	08/01/2018	Initial Issue

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END OF CERTIFICATE