



EU Type Examination Certificate Number: **0120/SGS0271**

Secure Meters (UK) Ltd

Moorside Road
Winnall
Winchester
SO23 7RX

Instrument Identification:

Sprint XP S3D*3*-***

Polyphase, Active/Import (kWh), Electricity Meter

Instrument Traceable Number

0120/ SGS0271

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 10th April 2017 until 5th April 2027
Issue1

Certification is based on report number(s) EMA231212/1/MID dated 10th April 2017

Authorised Signature


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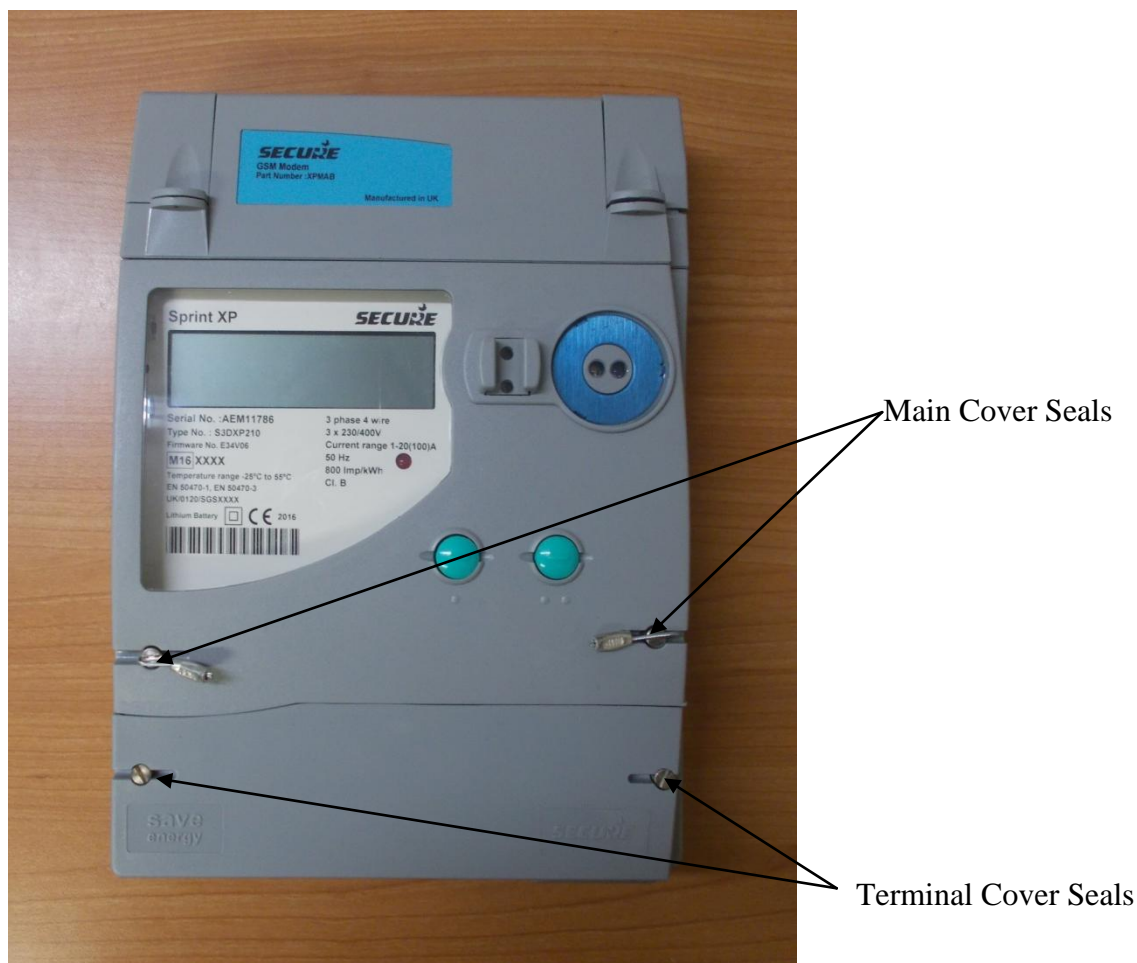
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1. Technical Data

Manufacturer	Secure Meters (UK) Ltd
Meter Type	Sprint XP S3D*3*-***
Voltage Rating (<i>Un</i>)	3x220/380V – 3x240/415V
Current Rating (<i>I_{min}</i> – <i>I_{ref}</i> (<i>I_{max}</i>))	1-20(100)A
Frequency (<i>Fn</i>)	50Hz
Active Accuracy Class (<i>kWh</i>)	A or B(kWh)
Type of circuit	3P4W
Temperature Range	-25°C to +55°C
Software/ Firmware Version No	E20603
Checksum	005C5754
Identification Location	Nameplate
Mechanical Environment	M1
Electromagnetic environment	E2
Bill Of Materials Number	S3DB30-781 R001
IP Rating	IP51
Insulation Protective Class	Class II
LED Pulse Constant	800imp/ 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

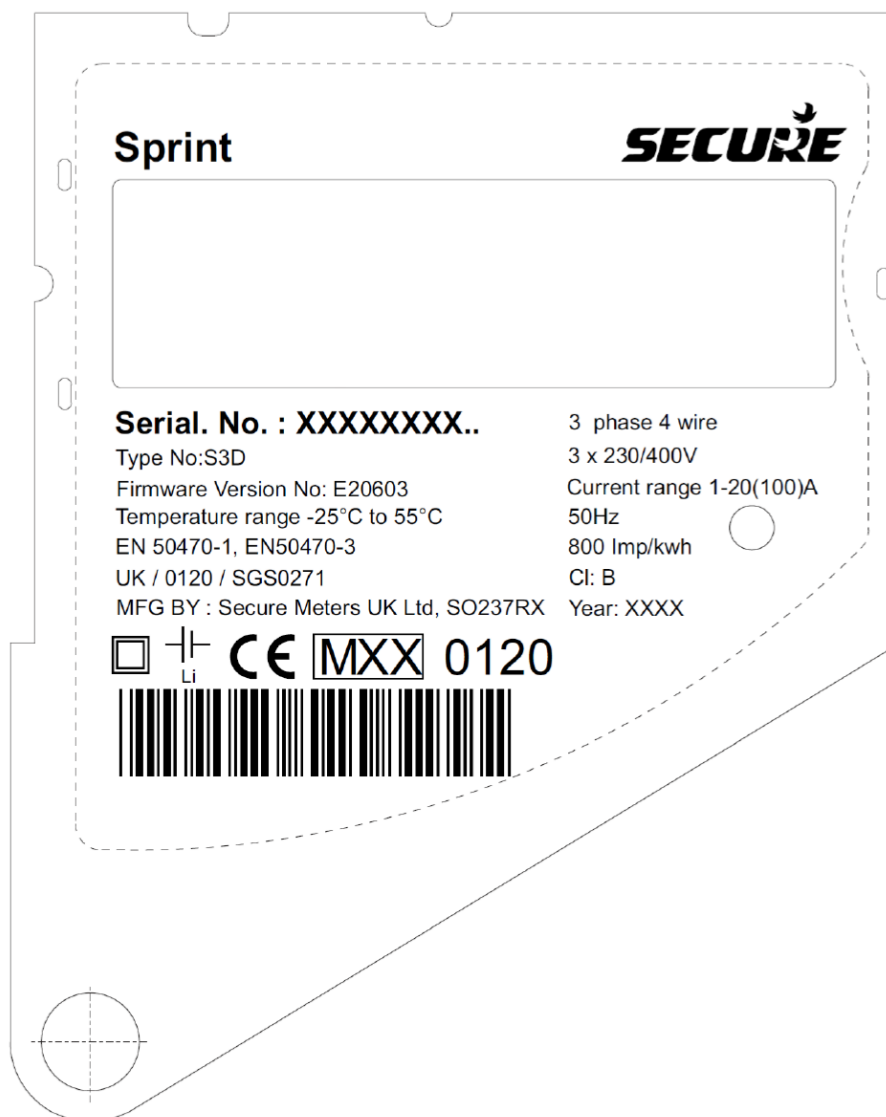
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2. Photograph of Meter and Sealing Plan



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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:-


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

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

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		Influence Factors for Temperature. Frequency & Voltage					
Current	PF Cos	-25	-10	5	30	40	55
I _{min}	1.0	0.40	0.23	0.12	0.19	0.24	0.30
I _{tr}	1.0	0.47	0.32	0.17	0.14	0.18	0.20
10I _{tr}	1.0	0.40	0.24	0.08	0.10	0.17	0.24
I _{max}	1.0	0.41	0.25	0.10	0.10	0.17	0.24
I _{tr}	0.5ind	0.70	0.69	0.57	0.27	0.22	0.34
10I _{tr}	0.5ind	0.53	0.45	0.37	0.15	0.08	0.22
I _{max}	0.5ind	0.61	0.52	0.43	0.12	0.10	0.27
I _{tr}	0.8cap	0.89	0.57	0.29	0.17	0.28	0.41
10I _{tr}	0.8cap	0.85	0.55	0.29	0.11	0.28	0.43
I _{max}	0.8cap	0.86	0.56	0.30	0.14	0.29	0.49
					0.00	0.00	0.00
L1							
I _{tr}	1.0	0.35	0.22	0.15	0.16	0.23	0.23
10I _{tr}	1.0	0.29	0.16	0.06	0.15	0.15	0.23
I _{max}	1.0	0.28	0.15	0.06	0.11	0.12	0.16
I _{tr}	0.5ind	0.62	0.55	0.55	0.20	0.09	0.40
10I _{tr}	0.5ind	0.64	0.50	0.47	0.05	0.13	0.38
I _{max}	0.5ind	0.75	0.61	0.46	0.06	0.17	0.39
L2							
I _{tr}	1.0	0.61	0.35	0.11	0.18	0.21	0.21
10I _{tr}	1.0	0.54	0.31	0.12	0.18	0.23	0.34
I _{max}	1.0	0.53	0.31	0.13	0.16	0.23	0.34
I _{tr}	0.5ind	0.61	0.44	0.28	0.22	0.22	0.38
10I _{tr}	0.5ind	0.41	0.41	0.37	0.18	0.14	0.21
I _{max}	0.5ind	0.49	0.47	0.38	0.13	0.09	0.22
L3							
I _{tr}	1.0	0.53	0.24	0.21	0.20	0.31	0.28
10I _{tr}	1.0	0.41	0.22	0.12	0.12	0.22	0.27
I _{max}	1.0	0.43	0.25	0.11	0.10	0.16	0.25
I _{tr}	0.5ind	0.70	0.59	0.56	0.45	0.40	0.52
10I _{tr}	0.5ind	0.57	0.44	0.34	0.13	0.10	0.25
I _{max}	0.5ind	0.67	0.54	0.87	0.07	0.12	0.30

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5. Product Variant Identification Details

CATCODE SPECIFICATION FOR SPRINT

S	3	D	B	3	0	-	7	8	1
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Identifier

S3D 3φ -4w

Class

A Class A
B Class B

Current Range

3 20/100A

External Memory + Module Provision


0 Non Xp (default)
1 Xp, Empty Module including all covers fitted
C Non xp with two screw (large bore plastic only)
E XP with two screw (large bore plastic only)
K Non xp, 230v, 12kv, PACT only, Two screw 100A
S 240V, 9.6Kbps, IP51, RPU, RS232, Magnet Sensor

Value	IP link location	Terminal cover
0	External IP (default)	Standard terminal cover
2	External IP with IP cover	Standard terminal cover
4	External IP (default)	Extended term cover
6	External IP with IP cover	Extended term cover
C	Solid link	Extended terms cover with Sealing collars & security screw.
E	Solid link	Extended term cover

Value	Clock Backup Source	Processor	Memory
5	Lithium Battery	E31	32K
7	Lithium Battery	E34	64K
D	Lithium Battery	E35	64K

Value	Interface Option	Additional Comms port
0	1 Out, 1 In (default)	NA
1	No Module Comms, Modem only (xp meter only)	NA
2	No I/O fitted	NA
4	2 Outputs	NA
5	1 Out, 0 In (on base meter)	NA
6	3 Outputs	RS232 on RJ11
7	2 Outputs	RS232 on RJ11
8	3 Outputs	GSM
A	2 Outputs(2A)	RS232 on RJ11
B	2 Outputs (100mA)	GSM
C	2 Outputs(2A)	GSM

Modifications to the meter(s) described according to approval No. **0120/ SGS0268** 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	10/04/2017	Initial Issue

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