



5386

SGS

UKCA Type Examination Certificate Number: 0120/SGS0502

## ChargePoint Network (UK)Ltd

2 Waterside Drive  
Theale  
Reading  
RG7 4SW

Instrument Identification:  
**CPIM1000**

**Polyphase, Active Import (kWh), Electricity Meter**

Instrument Traceable Number  
**0120/SGS0502**

has been assessed and certified as meeting the requirements of

## Measuring Instruments Regulations 2016 as amended on Active electrical energy meters, Schedule 1, 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, as referenced in the UK Measuring Instruments Regulations 2016, as amended

This certificate must be used in conjunction with a certificate covering the product verification as required in Schedule 1, Module D or Schedule 1, Module F

This certificate is valid for 10 years from 8<sup>th</sup> November 2021 until 7<sup>th</sup> November 2031  
Issue 1

Certification is based on report number(s) EMA290185/1 dated 8<sup>th</sup> November 2021


Authorised Signature

Rae Jackson

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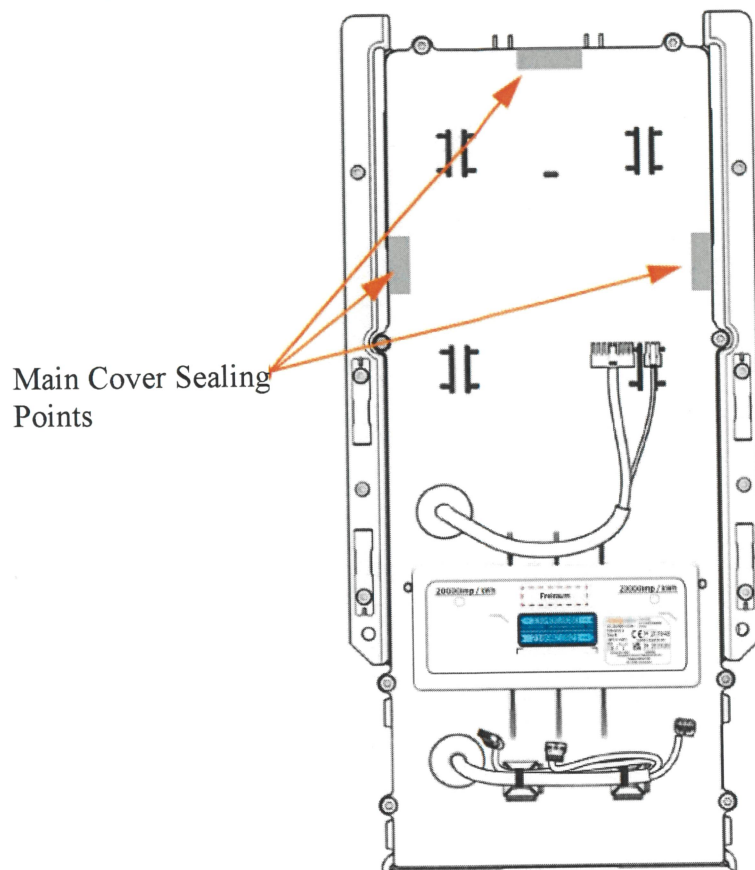
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## 1. Technical Data


Manufacturer	ChargePoint Network (UK) Ltd
Meter Type	CPIM1000
Voltage Rating ( $U_n$ )	3*230/400V
Current Rating ( $I_{min}$ – $I_{ref}$ ( $I_{max}$ ))	0.25-5(32)A
Frequency ( $f_n$ )	50Hz
Active Accuracy Class ( $kWh$ )	B ( $kWh$ )
Type of circuit	1p3w, 3p5w
Temperature Range	-25°C to +55°C
Software/ Firmware Version No.	a7aa9fcea7de19fcd4b20f6c7748cfc98c 9725a3351aede1f783e469945ce02
Identification Location	Nameplate
BoM No.	31-002210-05
IP Rating	IP51
Insulation Protective Class	Class I
LED Pulse Constant	20000 imp/kWh
Impulse Voltage Rating	4kV
AC Voltage Rating	2kV
Main Cover Sealing Type	Tamper proof sealing tape
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Enclosed in EV Charging Unit
Type of Register	LCD
Terminal Arrangement(s)	Not applicable
Location of Manufacturers Address	Associated Documents

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## 2. Sealing Plan



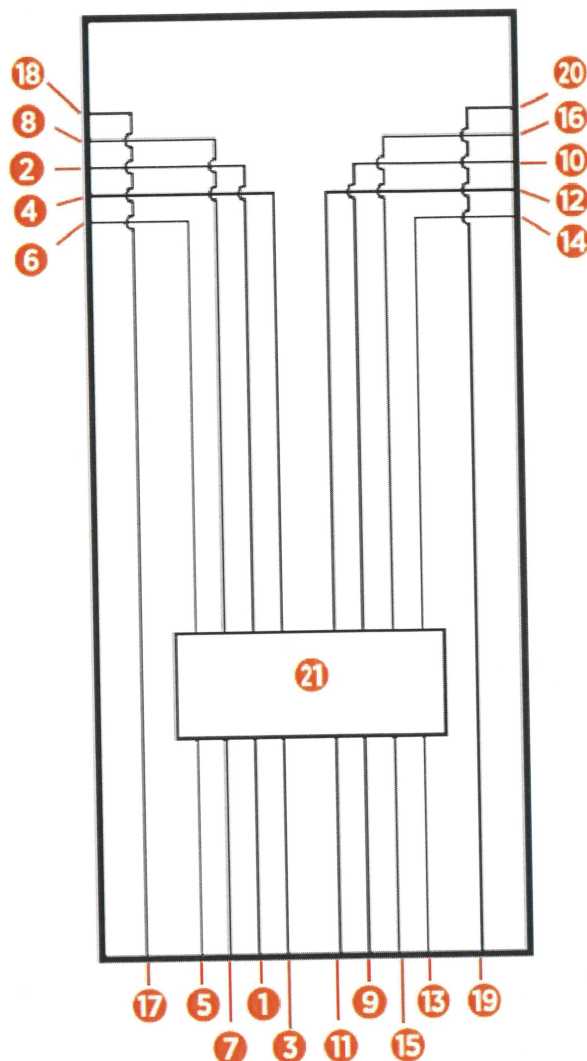



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### 3. Connection Diagrams and Terminal Markings

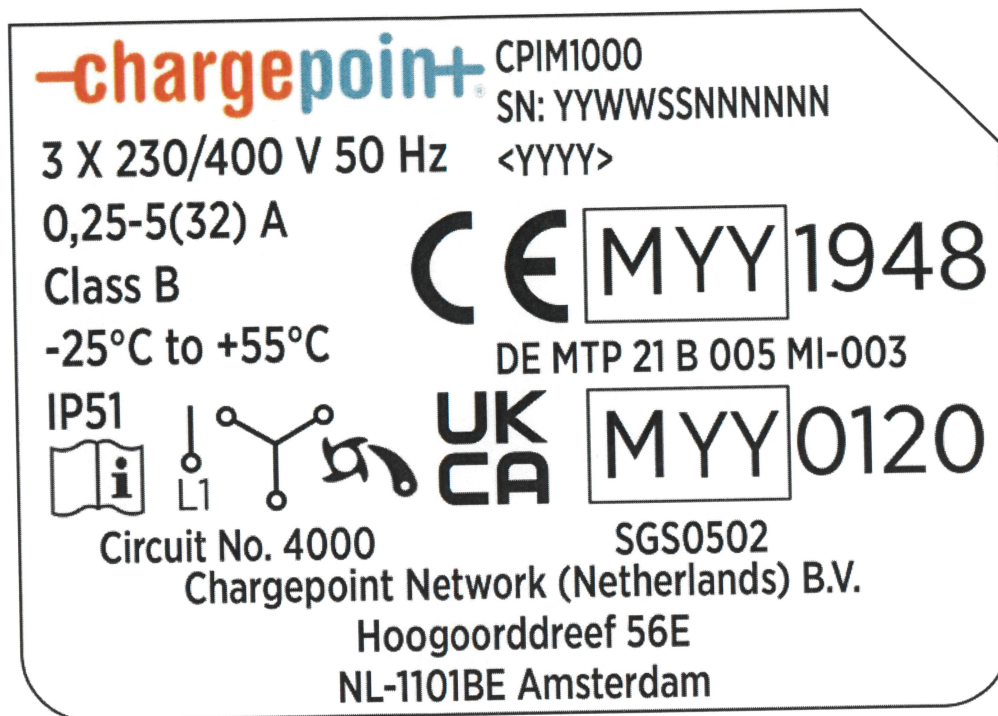
#### Integrated Meter Wiring Diagram


1. L1 input - Left
2. L1 output - Left
3. L2 input - Left
4. L2 output - Left
5. L3 input - Left
6. L3 output - Left
7. Neutral input - Left
8. Neutral output - Left
9. L1 input - Right
10. L1 output - Right
11. L2 input - Right
12. L2 output - Right
13. L3 input - Right
14. L3 output - Right
15. Neutral input - Right
16. Neutral output - Right
17. PE input - Left
18. PE output - Left
19. PE input - Right
20. PE output - Right
21. Relays



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4. Nameplate



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## 5. 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




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		Influence Factors for Temperature. Frequency & Voltage					
Current	PF Cos	-25°C	-10°C	5°C	30°C	40°C	55°C
I <sub>min</sub>	1.0	0.13	0.07	0.05	0.05	0.07	0.12
I <sub>tr</sub>	1.0	0.14	0.07	0.04	0.03	0.04	0.09
10I <sub>tr</sub>	1.0	0.12	0.06	0.06	0.06	0.06	0.11
I <sub>max</sub>	1.0	0.16	0.07	0.06	0.05	0.03	0.07
I <sub>tr</sub>	0.5ind	0.40	0.24	0.14	0.07	0.06	0.14
10I <sub>tr</sub>	0.5ind	0.32	0.17	0.10	0.06	0.09	0.11
I <sub>max</sub>	0.5ind	0.17	0.12	0.13	0.12	0.11	0.10
I <sub>tr</sub>	0.8cap	0.08	0.02	0.03	0.04	0.02	0.05
10I <sub>tr</sub>	0.8cap	0.08	0.01	0.01	0.02	0.02	0.08
I <sub>max</sub>	0.8cap	0.17	0.09	0.07	0.05	0.05	0.08
L1					0.00	0.00	0.00
I <sub>tr</sub>	1.0	0.20	0.11	0.08	0.02	0.05	0.06
10I <sub>tr</sub>	1.0	0.17	0.11	0.08	0.01	0.08	0.09
I <sub>max</sub>	1.0	0.18	0.10	0.07	0.04	0.04	0.02
I <sub>tr</sub>	0.5ind	0.41	0.24	0.13	0.06	0.05	0.10
10I <sub>tr</sub>	0.5ind	0.33	0.18	0.13	0.06	0.05	0.09
I <sub>max</sub>	0.5ind	0.19	0.11	0.09	0.08	0.07	0.07
L2							
I <sub>tr</sub>	1.0	0.20	0.11	0.07	0.06	0.05	0.06
10I <sub>tr</sub>	1.0	0.16	0.08	0.06	0.06	0.06	0.06
I <sub>max</sub>	1.0	0.20	0.21	0.22	0.24	0.30	0.27
I <sub>tr</sub>	0.5ind	0.46	0.27	0.15	0.07	0.08	0.16
10I <sub>tr</sub>	0.5ind	0.34	0.18	0.11	0.33	0.07	0.13
I <sub>max</sub>	0.5ind	0.19	0.09	0.09	0.08	0.07	0.07
L3							
I <sub>tr</sub>	1.0	0.13	0.05	0.04	0.06	0.04	0.08
10I <sub>tr</sub>	1.0	0.14	0.05	0.04	0.06	0.02	0.07
I <sub>max</sub>	1.0	0.13	0.09	0.01	0.11	0.07	0.01
I <sub>tr</sub>	0.5ind	0.36	0.22	0.11	0.07	0.06	0.12
10I <sub>tr</sub>	0.5ind	0.32	0.19	0.14	0.10	0.09	0.14
I <sub>max</sub>	0.5ind	0.11	0.08	0.78	0.04	0.08	0.08

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## 6. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
CPIM1000	3*230/400V, 0.25-5(32)A, 20000imp/kWh

Modifications to the meter(s) described according to approval No. **0120/SGS0502** 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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## 7. Document Revision History

Issue	Date	Comments
1	08/11/2021	Initial Issue

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**END OF CERTIFICATE**