

EU Type Examination Certificate Number: 0120/ SGS0212

Shenzhen Clou Electronics Co., Ltd.

16/F, Clou Building Baoshen Road South Hi-tech Industrial Park North Nanshan District Shenzhen, China

Instrument Identification: CL710K22

Instrument Traceable Number 0120/ SGS0212

Single Phase, Active Import/ Export, Outdoor, 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 11th April 2026 Issue 5

Certification is based on report number(s) SZES151000342001 dated 5th April 2016, SZES151000342001/iss2 dated 10th April 2017, SZES151000342001/iss3 dated 25th May 2018 SHES191202790901 dated 6th May 2020 EMA221646/1

Authorised Signature

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1. Technical Data`

Manufacturer	Shenzhen Clou Electronics Co., Ltd.
Meter Type	CL710K22
Voltage Rating (Un)	220-240V
Current Rating (Imin – Iref (Imax))	0.05-5(100)A, 0.05-5(80)A, 0.15-5(100)A
Frequency (Fn)	50/60Hz
Active Accuracy Class (kWh)	C (kWh)
Type of circuit	1p2w
Temperature Range	-40°C to +70°C
Software/ Firmware Version No Identification Location	08 LCD
Bill Of Materials Number	Keyboard:26064696000001 Non-Keyboard:26064696000003
IP Rating	IP54
Insulation Protective Class	Class II
Mechanical Environment	M1
Electromagnetic Environment	E2
LED Pulse Constant	1000imp/kWh, 1600 imp/ 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	Outdoor
Type of Register	LCD
Terminal Arrangement(s)	BS



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2. Photographs of Meter and Sealing Plan



Main cover seals



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Main cover seals

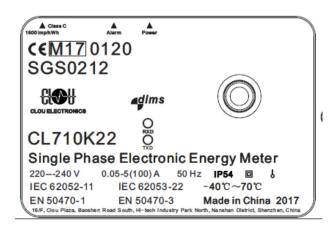


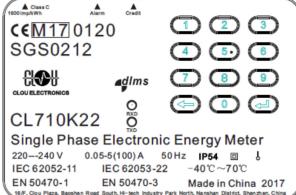
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3. Nameplates

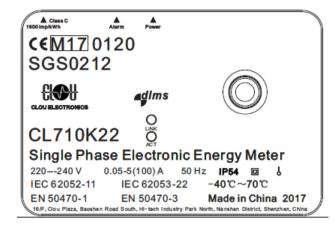
PLC Version

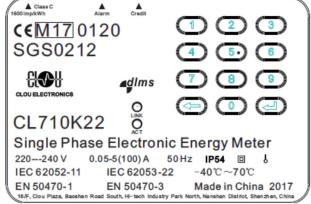






RF Version



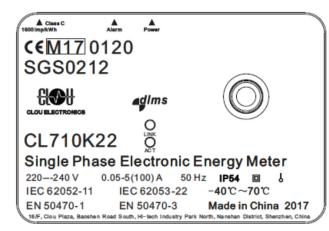


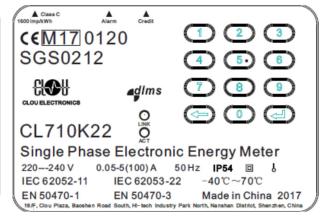


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GPRS Version







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4. Influence factors for temperature, frequency and voltage

Current	PF Cos	-40℃	-25℃	-10℃	5℃	30℃	40℃	55℃	70℃
Imin	1.0	0.66	0.41	0.23	0.17	0.09	0.12	0.16	0.19
ltr	1.0	0.64	0.40	0.26	0.13	0.07	0.09	0.17	0.19
10ltr	1.0	0.65	0.41	0.26	0.13	0.03	0.06	0.14	0.15
Imax	1.0	0.47	0.35	0.28	0.23	0.19	0.18	0.17	0.18
ltr	0.5ind	0.57	0.36	0.21	0.13	0.10	0.11	0.19	0.19
10ltr	0.5ind	0.64	0.37	0.24	0.13	0.06	0.08	0.08	0.15
Imax	0.5ind	0.60	0.51	0.46	0.43	0.40	0.39	0.37	0.38
ltr	0.8cap	0.56	0.37	0.22	0.11	0.07	0.10	0.16	0.16
10ltr	0.8cap	0.59	0.38	0.23	0.12	0.04	0.06	0.13	0.14
Imax	0.8cap	0.49	0.39	0.32	0.28	0.25	0.24	0.22	0.23

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

 $\delta e(T, I, \cos \varphi) = \Delta ditional error due to variation of the temperature at the same load <math>\delta e(U, I, \cos \varphi) = \Delta ditional error due to variation of the voltage at the same load <math>\delta e(f, I, \cos \varphi) = \Delta ditional error due to variation of the frequency at the same load$

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5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
CL710K22	1P2W, 220-240V, 0.05-5(80)A 0.05-5(100)A, 0.15-5(100)A Optional detachable communication modules: PLC module, RF module, GPRS module

Modifications to the meter(s) described according to approval No.0120/ SGS0212 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	12/04/2016	Initial Issue
2	19/01/2017	Updated to the requirements of EU Directive 2014/32/EU Mechanical and Electromagnetic environments added to technical data
3	24/05/2018	Optional GPRS communication module
4	03/04/2019	Reference to test reports SZES151000342001/iss2 dated 10 th April 2017 & SZES151000342001/iss3 dated 25 th May 2018 added to certificate due to being omitted from issue 3 certificate.
5	14/05/2020	New variant 0.15- 5(100)A, 1000imp/kWh added to approval

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