EU TYPE EXAMINATION CERTIFICATE
Directive 2014/32/EU, Module B
0598/MID/B/24/048 Issue 1

Product	Active Electrical Energy Meters (Annex V MI-003)		
Model	Meter type COUNTIS P04, COUNTIS P06	Description Single phase, Active Import/Export (kWh) Indoor, Electricity Meter	Instrument Traceable No. 0120/SGS0751
Trademark	-		
Certificate holder / Manufacturer	SOCOMEC S.A.S 1-4 Rue de Westhouse 67230 BENFELD FRANCE		
Directive information	For the instruments mentioned in this Certificate, the following essential requirements of Directive 2014/32/EU apply: - Annex I Essential requirements - Annex V Active electrical meters (MI-003)		
Standards	EN IEC 62052-11:2021/A11:2022, EN 50470-3:2022, IEC 62052-31:2015		
Validity	This certificate is valid until 2034-04-30 The manufacturer must inform SGS Fimko in case of any intended change to the design. Unauthorised changes will invalidate this certificate. The Manufacturer is permitted to affix the CE-marking onto the instrument(s) after complying with the conformity assessment procedures referred to in Article 17 of the Directive and to draw up a written declaration of conformity.		
Date of issue	2024-11-11		
Signature	SGS Fimko OY Notified Body 0598  Mikko Välimäki Certification Manager		

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Test report(s)

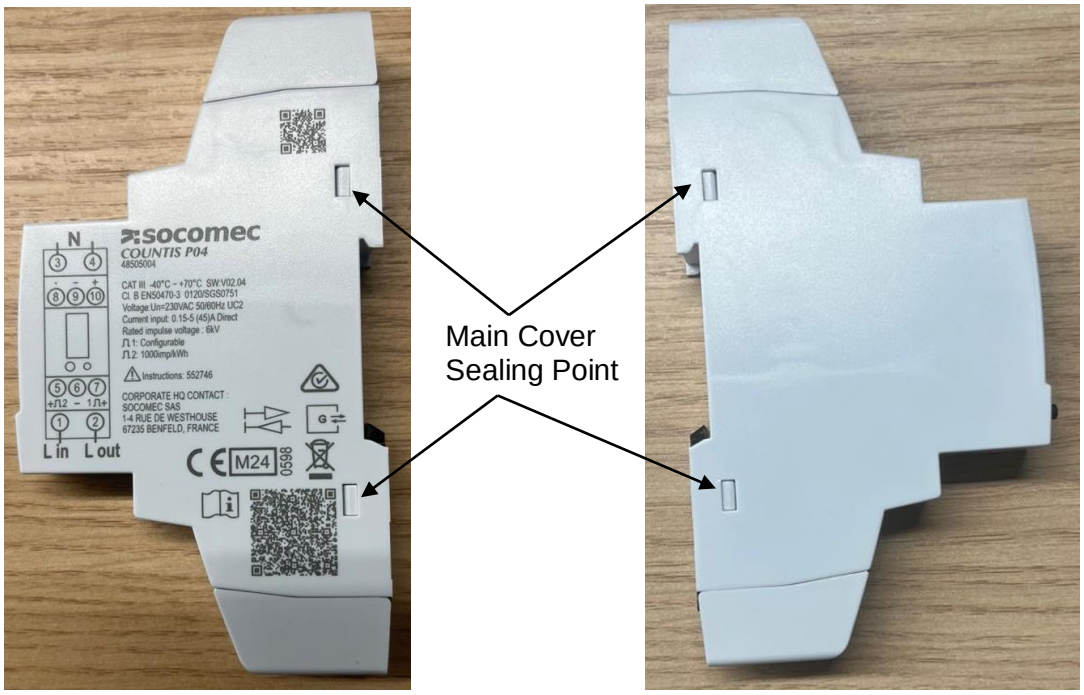
Report Number	Date
SHES231202449601 Issue 1	2024-04-23
SHES231202449602 Issue 1	2024-04-23
XNZ202402059	2024-04-18

Technical information

Meter Type(s)	COUNTIS P04, COUNTIS P06
Voltage Rating (U^n)	230V
Current rating (I_{min} – I_{ref} (I_{max}))	0.15-5(45)A
Frequency (F_n)	50/60 Hz
Active Accuracy Class	A or B or C (kWh)
Type of Circuit	1p2w
Temperature Range	-40 ^oC to +70 ^oC
Software Version	V02.04
CRC Checksum	COUNTIS P04: EDB2448D COUNTIS P06: 35053407
Identification location	Nameplate
Bill of Materials No.(s)	COUNTIS P04: DH-JS-240047 V1.0 COUNTIS P06: DH-JS-240049 V1.0
IP rating	IP51 Front Display. Meter body not rated. Must be installed in a suitable IP rated enclosure
Insulation protective class	Class II
LED Pulse Constant	1000 imp/kWh,
Impulse Voltage Rating	6 kV
AC Voltage Rating	4 kV
Integrity of Meter	Inaccessible without breaking seals
Intended location of the Meter	Indoor
Type of Register	LCD

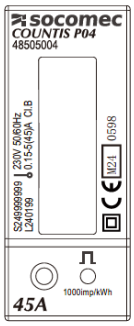
Photograph of Meter and Sealing Point

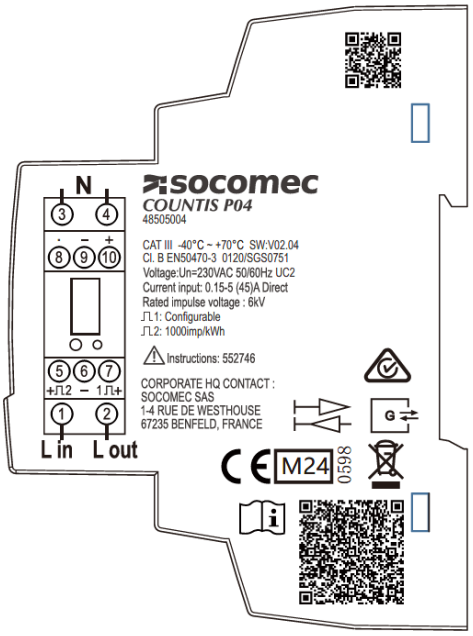
Terminal Cover Sealing Points

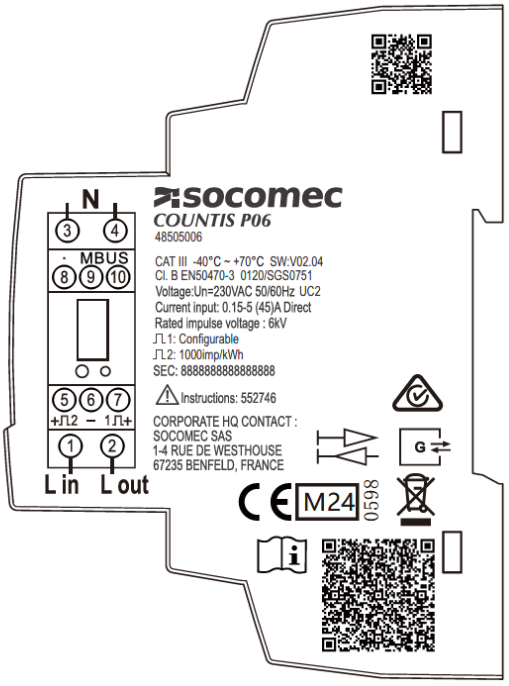


Main Cover
Sealing Point

Example of Nameplates







Calculation of the composite error / MPE

During the type approval examination the influence factors for temperature, 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

		Influence Factors for Temperature. Frequency & Voltage							
Current	PF Cos	-40°C	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
Imin	1.0	0.07	0.06	0.05	0.05	0.08	0.09	0.14	0.20
Itr	1.0	0.08	0.04	0.03	0.03	0.07	0.09	0.15	0.24
10Itr	1.0	0.06	0.04	0.02	0.02	0.02	0.04	0.11	0.15
Imax	1.0	0.05	0.07	0.05	0.05	0.06	0.08	0.14	0.20
Itr	0.5ind	0.15	0.28	0.12	0.12	0.07	0.05	0.03	0.10
10Itr	0.5ind	0.15	0.14	0.13	0.14	0.10	0.07	0.01	0.08
Imax	0.5ind	0.12	0.13	0.17	0.19	0.21	0.16	0.12	0.07
Itr	0.8cap	0.03	0.02	0.05	0.07	0.14	0.16	0.21	0.29
10Itr	0.8cap	0.03	0.02	0.05	0.06	0.11	0.14	0.21	0.29
Imax	0.8cap	0.14	0.13	0.11	0.10	0.09	0.12	0.17	0.23

Product Variant Identification Details

Type Designation	Description of meter
COUNTIS P04	Single Phase 230V, 0.15-5(45)A, Active (kWh), Reactive (kvarh) LCD with Backlight, Pulse Output, RS485
COUNTIS P06	Single Phase 230V, 0.15-5(45)A, Active (kWh), Reactive (kvarh) LCD with Backlight, Pulse Output, Mbus

Certificate Revision History

Issue	Date	Comments
1	2024-11-11	This certificate replaces earlier issued certificate number 0120/SGS0751. The manufacturer can use the previous certificate number 0120/SGS0751 in their Declaration of Conformity and other documentation until normal lifecycle of the documentation comes to its end. New EU Type Examination Certificate number: 0598/MID/B/24/048