EU TYPE EXAMINATION CERTIFICATE
Directive 2014/32/EU, Module B
0598/MID/B/25/072 Issue 1

Product Active Electrical Energy Meters (Annex V MI-003)

Model

Meter type	Description	Instrument Traceable No.
COUNTIS EVDC-300	2 Wire Connection	0598/MID/B/25/072
COUNTIS EVDC-600	Import/Export (kWh)	
	DC Electricity Meter	

Trademark SOCOMEC

Certificate holder / Manufacturer
SOCOMEC S.A.S
1 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 50470-4:2023, IEC 62052-31:2015

Validity
This certificate is valid until 2034-11-12.
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 2025-08-26

SGS Fimko OY
Notified Body 0598

Signature

Mikko Välimäki
Certification Manager

Certificate issued by

SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
t. +358 9 696 361 www.sgs.com
Business ID 0634247-4 Member of the SGS Group (SGS SA)

Test report(s)

Report Number	Date
SHES240601321901	2024-10-14
SHES240601321902	2024-10-14

Additional information Measurement circuits is Non-mains-circuits

Technical information

Meter type(s)	COUNTIS EVDC-300, COUNTIS EVDC-600
Voltage rating (U^n)	100-1000V
Current rating (I_{min} – I_{ref} (I_{max}))	COUNTIS EVDC-300: 2.5-50(300)A COUNTIS EVDC-600: 2.5-50(600)A
Accuracy Class (kWh)	B (kWh)
Type of circuit	2 Wire Connection
Temperature range	-40ºC to +70ºC
Software version no.:	01.02
CRC Checksum	B0D4D136
Identification location	LCD
Bill of Materials No.(s)	COUNTIS EVDC-300: DH-JS-240084 V1.0 COUNTIS EVDC-600: DH-JS-240086 V1.0
IP rating	IP20 (Installed in an electrical cabinet with IP51 rating rating）
Insulation protective class	Class II
LED Pulse Constant	10 imp/kWh
Impulse Voltage Rating	9.6 kV
DC Voltage Rating	6.2 kV
Main Cover Sealing Type	Main cover clipped in place and sealed with tamper proof sealing tape
Integrity of Meter	Inaccessible without breaking seals
Intended location of the Meter	Indoor
Type of Register	LCD

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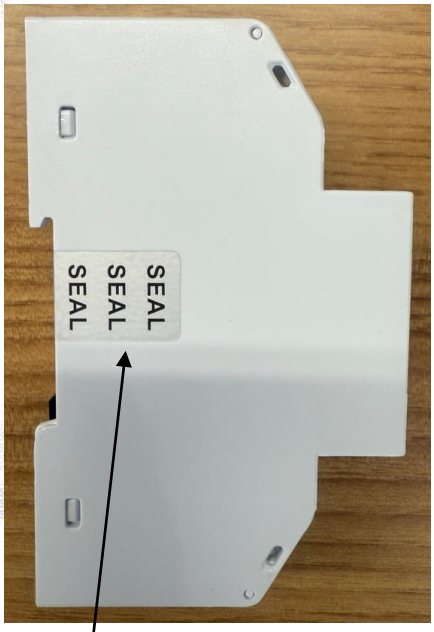
Photograph of Meter and Sealing Point



Main Cover Seal

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Meter With External Shunt Connected

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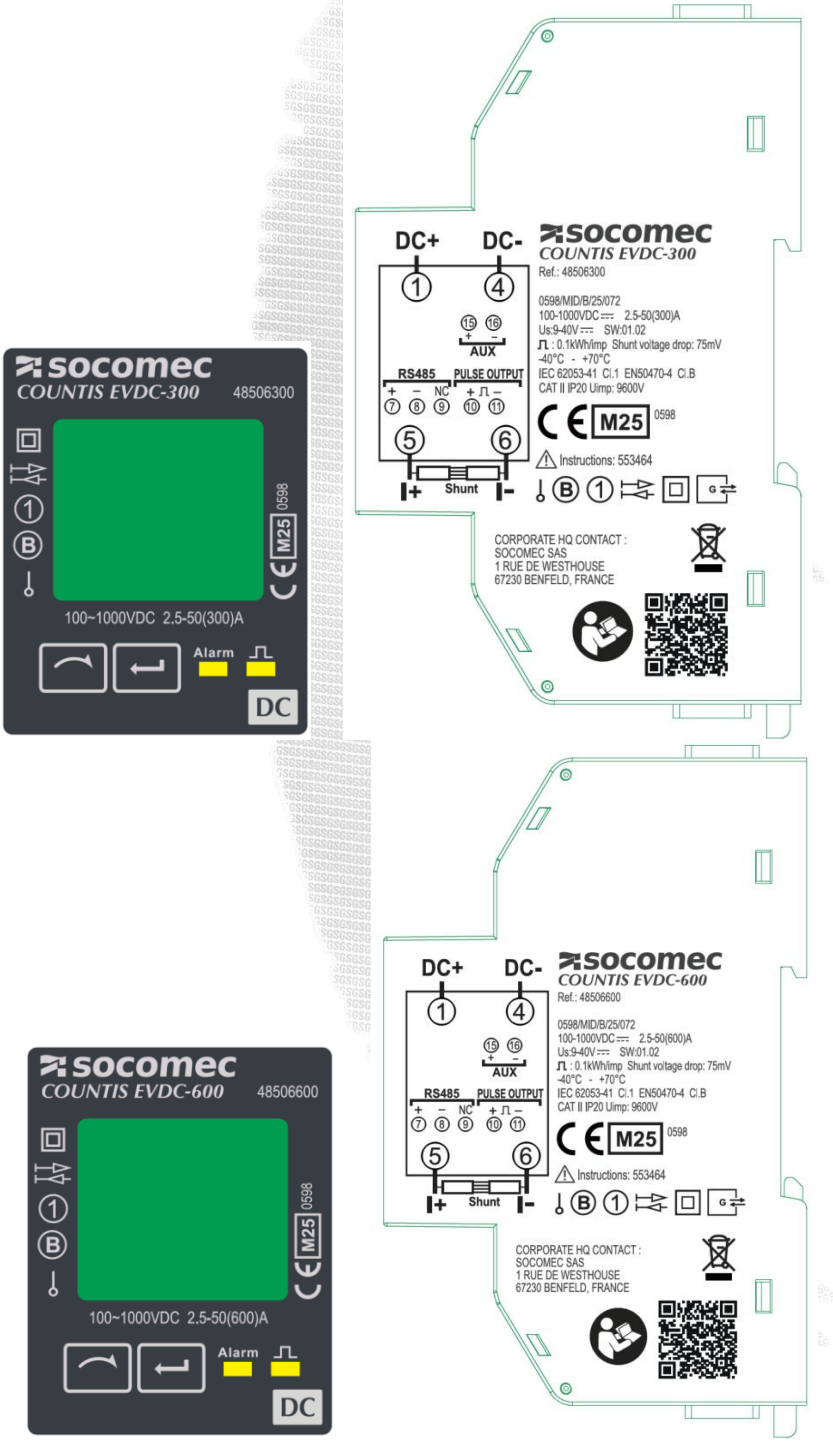
Example of Nameplates



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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.

	Influence Factors for temperature and voltage							
Current	-40°C	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
Imin	*1.82*	*2.00*	*2.02*	*2.02*	*2.23*	*2.03*	*1.91*	*1.83*
Itr	*0.28*	*0.33*	*0.40*	*0.40*	*0.40*	*0.42*	*0.29*	*0.39*
10Itr	*0.25*	*0.22*	*0.20*	*0.35*	*0.26*	*0.25*	*0.25*	*0.24*
Imax	*0.86*	*0.93*	*0.90*	*0.95*	*0.91*	*0.93*	*0.90*	*0.80*

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Product Variant Identification Details

Model No.	Current range	Pulse output constant
COUNTIS EVDC-300	2.5-50(300)A	10 imp/kWh
COUNTIS EVDC-600	2.5-50(600)A	10 imp/kWh

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Certificate Revision History

Issue	Date	Comments
1	2025-08-26	Initial Issue

FINAS
Finnish Accreditation Service
S003 (EN ISO/IEC 17065)

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