

Instrument Traceable No.

0598/MID/B/25/072

# **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

**COUNTIS EVDC-300** 

**COUNTIS EVDC-600** 

2 Wire Connection Import/Export (kWh)

Description

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



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# SGS Fimko Ov

Takomotie 8 FI-00380 Helsinki, Finland t. +358 9 696 361 www.sgs.com

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Test report(s)

| Report Number    | sassasasasasasasas 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 (Un)

100-1000V

Current rating (Imin - Iref (Imax)) 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

-40°C to +70°C

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

Inaccessible without breaking seals Integrity of Meter

Intended location of the Meter

Indoor

Type of Register

LCD

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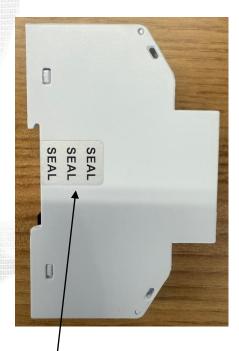


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# **Photograph of Meter and Sealing Point**







Main Cover Seal

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Meter With External Shunt Connected

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# **Example of Nameplates ≈SOCOMEC**COUNTIS EVDC-300 DC+ DC-4 (1) tef.: 48506300 0598/MID/B/25/072 100-1000/DC== 2.5-50(300)A Us9-40V == \$W:01.02 ☐ :0.1KM/hilmp Shunt voltage drop: 75mV -40°C - +70°C EIC 62053-41 C.I. EN50470-4 C.B CAT II IP20 Ulmp: 9600V (15) (16) AUX **≯**socomec PULSE OUTPUT RS485 **COUNTIS EVDC-300** + - NC + Λ-⑦ ⑧ ⑨ ⑩ ⑪ **C** € M25 0598 (5) 6 ⚠ Instructions: 553464 M 1 B ① □ □ □ □ (1) CORPORATE HQ CONTACT SOCOMEC SAS 1 RUE DE WESTHOUSE 67230 BENFELD, FRANCE **B** 100~1000VDC 2.5-50(300)A DC **SOCOMEC**COUNTIS EVDC-600 DC-DC+ 4 1 0598/MID/B/25/072 100-1000/DC== 2.5-50(600)A Us9-40V== 8/W01.02 ☐: 0.1kWhimp Shunt voltage drop: 75mV -40°C - +70°C EIC 62053-41 C.1: EN50470-4 C.B CAT II IP20 Ulmp: 9600V (1) (1) AUX **>** socomec COUNTIS EVDC-600 PULSE OUTPUT RS485 + - NC + Π-⑦ ® ® ® ® **C € M25** 0598 6 ⚠ Instructions: 553464 | B (1) | □ □ □ □ 1 **B** CORPORATE HQ CONTACT 100~1000VDC 2.5-50(600)A DC

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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

 $\delta e(f, I, \cos \varphi) = \text{Additional error due to variation of the frequency at the same load.}$ 

|         |       | Influence Factors for temperature and voltage |       |      |      |      |      |      |  |
|---------|-------|---|-------|------|------|------|------|------|--|
| Current | -40°C | -25°C   | -10°C | 5°C  | 30°C | 40°C | 55°C | 70°C |  |
| lmin    | 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 |  |
| 10ltr   | 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 | 0.0005 BC 0.0005 |



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