

# 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



**Test report(s)**

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

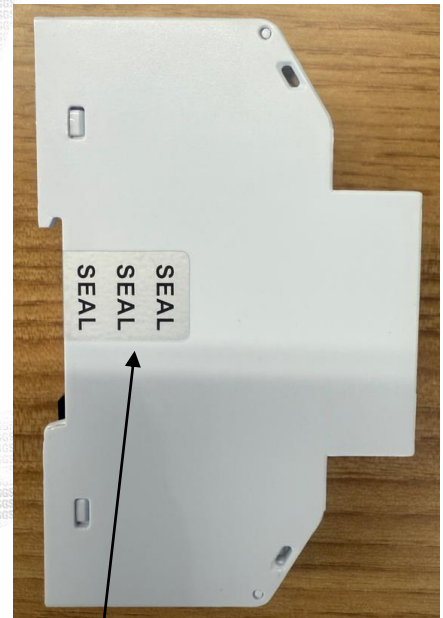
**Additional information**

Measurement circuits is Non-mains-circuits

**Technical information**

|                                                                             |                                                                            |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Meter type(s)                                                               | COUNTIS EVDC-300,<br>COUNTIS EVDC-600                                      |
| Voltage rating (U <sup>n</sup> )                                            | 100-1000V                                                                  |
| Current rating<br>(I <sub>min</sub> – I <sub>ref</sub> (I <sub>max</sub> )) | COUNTIS EVDC-300: 2.5-50(300)A<br>COUNTIS EVDC-600: 2.5-50(600)A           |
| Accuracy Class<br>(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<br>No.(s)                                                 | COUNTIS EVDC-300: DH-JS-240084 V1.0<br>COUNTIS EVDC-600: DH-JS-240086 V1.0 |
| IP rating                                                                   | IP20 (Installed in an electrical cabinet with IP51 rating rating)          |
| Insulation protective<br>class                                              | Class II                                                                   |
| LED Pulse Constant                                                          | 10 imp/kWh                                                                 |
| Impulse Voltage<br>Rating                                                   | 9.6 kV                                                                     |
| DC Voltage Rating                                                           | 6.2 kV                                                                     |
| Main Cover Sealing<br>Type                                                  | Main cover clipped in place and sealed with tamper proof sealing tape      |
| Integrity of Meter                                                          | Inaccessible without breaking seals                                        |
| Intended location of<br>the Meter                                           | Indoor                                                                     |
| Type of Register                                                            | LCD                                                                        |

## Photograph of Meter and Sealing Point

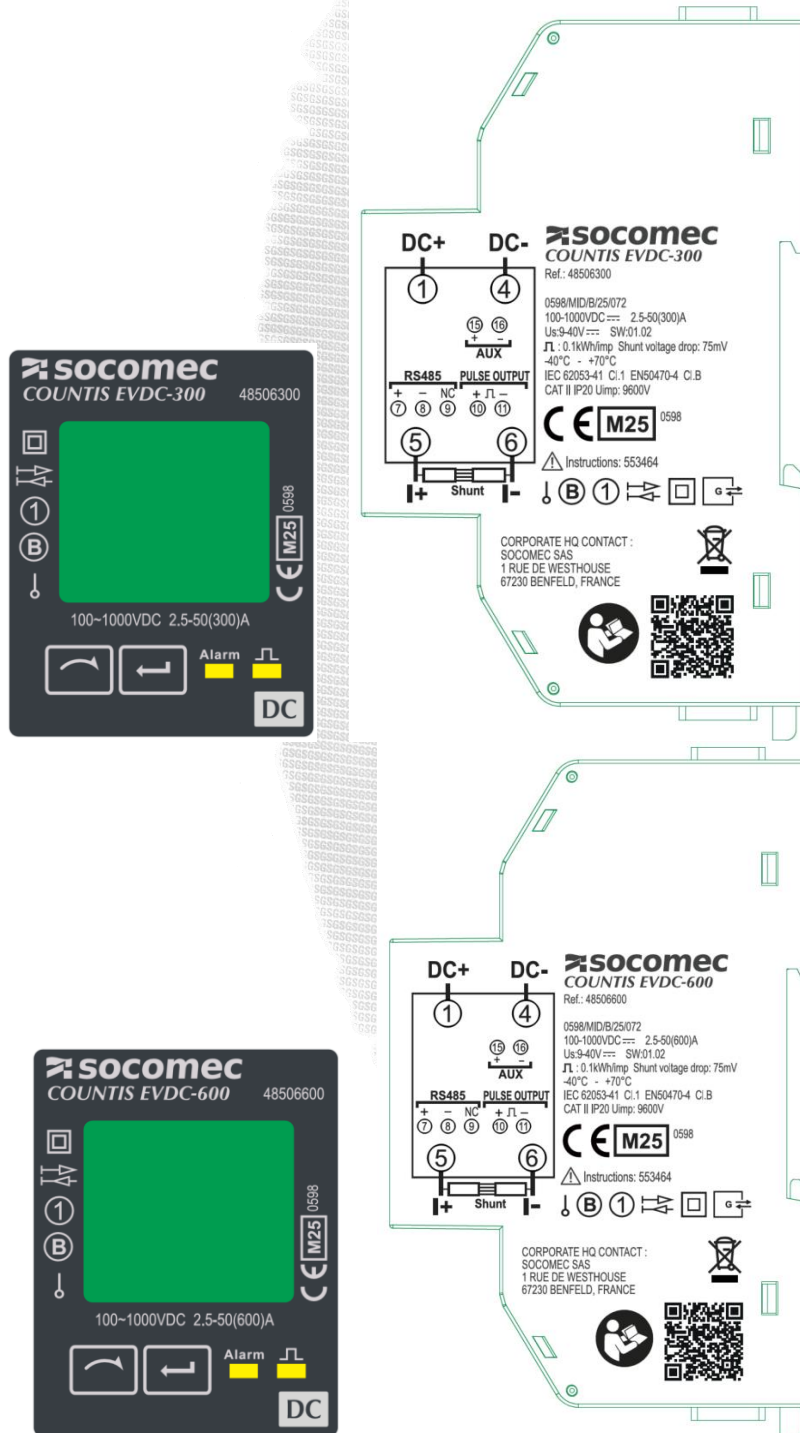


Main Cover Seal



Meter With External Shunt Connected

## Example of Nameplates



### 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 |
| I <sub>min</sub>  | 1.82                                          | 2.00  | 2.02  | 2.02 | 2.23 | 2.03 | 1.91 | 1.83 |
| I <sub>tr</sub>   | 0.28                                          | 0.33  | 0.40  | 0.40 | 0.40 | 0.42 | 0.29 | 0.39 |
| 10I <sub>tr</sub> | 0.25                                          | 0.22  | 0.20  | 0.35 | 0.26 | 0.25 | 0.25 | 0.24 |
| I <sub>max</sub>  | 0.86                                          | 0.93  | 0.90  | 0.95 | 0.91 | 0.93 | 0.90 | 0.80 |

## 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            |

## Certificate Revision History

| Issue | Date       | Comments      |
|-------|------------|---------------|
| 1     | 2025-08-26 | Initial Issue |