COUNTIS Adc

F **Notice d'utilisation** GB **Operating instructions**
D **Bedienungsanleitung** I **Istruzioni per l'uso**
NL **Gebruiksaanwijzing** E **Instrucciones de servicio**
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Энергетические и телекоммуникационные системы

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PRELIMINARY OPERATIONS

For personnel and product safety please read the contents of these operating instructions carefully before connecting.
Check the following points as soon as you receive the package:

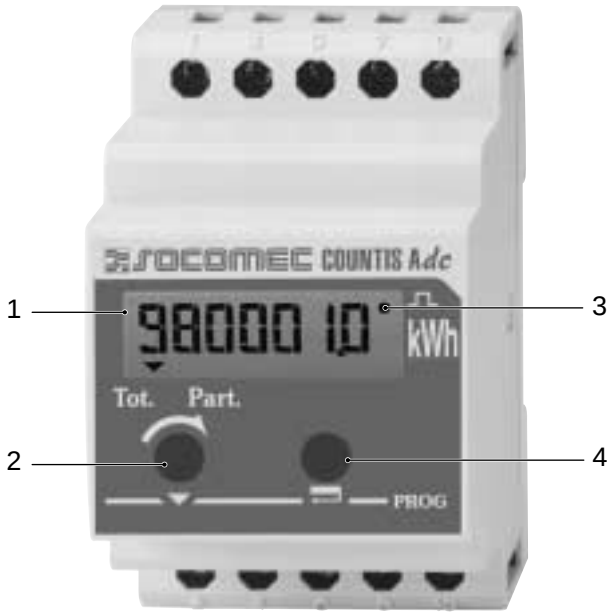
- the packing is in good condition,
- the product has not been damaged during transit,
- the product reference number conforms to your order,
- the packaging contains both the product itself and the instructions for use.

GENERAL INFORMATION

The Countis system consists of several products for the metering of active energy.
The Countis Adc is an active-energy meter for 48 V DC networks, giving direct readings in kWh.

This product is entirely configurable (shunt primary and secondary up to 600 A and pulse lengths of 60 to 900 ms). Moreover, it also provides a partial meter that can be reset in the configuration menu.

PRESENTATION



COUNT 115 A

1. KWh display
2. Total or partial meter display of scrolling of programming parameters
3. Flashing LED consumption indicator (10 Wh / pulse)
4. Validation / Scrolling of parameters settings

INSTALLATION

CLIMATIC ENVIRONMENT

Note:
The Adc is fitted on to a DIN EN 50022 rail (DIN 43880).

To guarantee optimal operation, it is recommended to use this equipment at - 5 °C to + 45 °C with maximum relative humidity of 85 %.

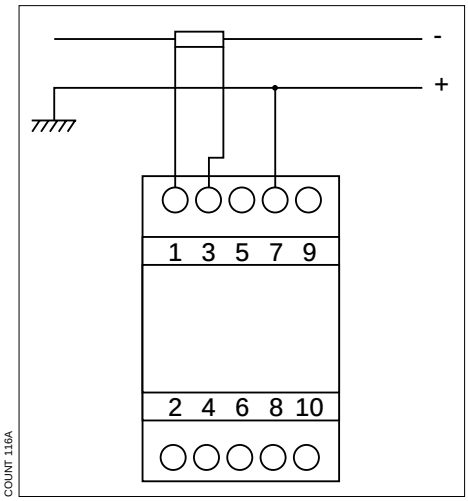
SAFETY INSTRUCTIONS

Recommendations:
- *Avoid proximity to systems which generate electromagnetic interference.*
- *Avoid vibrations with accelerations in excess of 1 G for frequencies below 60 Hz.*

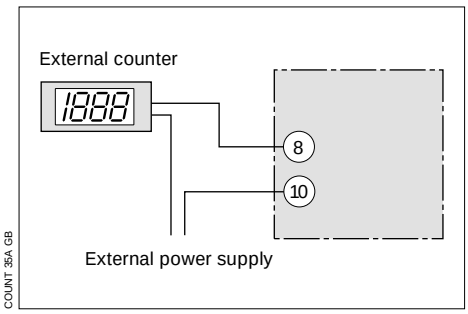
To avoid damage to the device please ensure the following points are respected before connecting:
- indications on the casing
- 48 V DC voltage
- current on shunt 70 or 100 mV.

CONNECTION TO THE NETWORK

Note:
If the shunt is incorrectly connected or if current / voltage do not correspond (negative energy) metering will stop and the ▼ arrows flash.



CONNECTION OF THE PULSE OUTPUT



ENGLISH

PROGRAMMING

Note:
Programming is quit automatically after 25 seconds.

Note:
Press on the ▼ key constantly to obtain rapid scrolling, press once to obtain point by point scrolling.

KEYS	INSTRUCTIONS
▼ + ↵	Press for about 3 seconds to accede to the introduction to the access code (CdE).
▼	To introduce **code 167**.
↵	To validate the code and to accede to programming of the shunt primary (PR).
▼	To select the primary shunt between 1-4-6-10-15-25-40-60-100-150-200-250-300-400-600.
↵	To validate the value and move on to programming of the secondary (SE).
▼	To programme a secondary of 70 or 100 mV.
↵	To validate the secondary and move on to the pulse length (PLS).
▼	To programme the length of the pulses from 60 to 900 ms.
↵	To validate the value and move on to resetting the partial metering (rSET).
▼	To select "YES" and reset to zero or "NO" in the opposite case.
↵	To validate the reset to zero and return to shunt programming.
▼ + ↵	To validate and quit programming.

TECHNICAL CHARACTERISTICS

CASE

Connection	via terminals from 1 to 10 mm^2
Weight	300 g
Dimensions	3 x 17.5 mm modules

DISPLAY

Green LCD with 6 + 1 digits (999 999.9 kWh)	
Size of digits	8 x 4 mm
Accuracy	± 1 digit
Protection index	IP40

INPUTS

CURRENT	
From a current transformer with a	
• configurable primary	1,4, 6, 10, 15, 25, 40, 60, 100, 150, 200, 250, 300, 400 and 600 A
• non-insulated secondary on shunt	70 mV or 100 mV
Consumption of the input	≤ 1 mW
Minimum current measured	5 mV
Overload	20 Imax over 500 ms
VOLTAGE	
Range of measurement	40.5 to 57 V DC
Permanent load	60 V DC
Consumption	≤ 1.5 W

Note:
The device is self-powered from this voltage input.

ACCURACY

Active energy	5 % of 10 mV to 100 mV

PULSE OUTPUT

Reed relays (100 V DC – 0.5 A – 12 VA)	
Length of pulses	60 to 900 ms
Maximum number of operations	5 x 10^7 at 10 V DC / 10 mA
Weight of pulses fixed at 100 Wh	

OPERATING CONDITIONS

Operating temperature	- 5 °C to + 45 °C
Storage temperature	- 20 °C to +70 °C
Relative humidity	85 %

STANDARDS

EC Marking	CEI 61000-4 / 2-3-4-5-6-8-11 EN 50081-1 EN 50081-2
Environment	CEI 60068-2-11 / 30

Réf. : 875 664 B - 02/02

RUSSIA

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