



Certificate of Conformity

Number NMI-CoC-25.19R1
Project number 3644009
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Issued by : NMI Certin B.V.
Thijssseweg 11
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The Netherlands

Applicant : SATEC LTD
PO Box 45022
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Submitted : **A static meter for DC energy**

Manufacturer : SATEC LTD
Type : PM335 and EM235
Destined for the : Electrical DC energy in a
measurement of - one-phase two-wire system

In accordance with : See page 2

Characteristics : See page 2 and 3

The undersigned declares that the described product is tested according to the standards as referred to on page 2 and meets their requirements, based on a non-recurrent examination. The appertaining test data is presented in the type evaluation reports NMI-3644009-01, NMI-3644009-02, NMI-3644009-03, NMI-3644009-04, NMI-3644009-05, NMI-3644009-06 and docfolder NMI-CoC-25.19-1-1 granted by NMI.

NMI Certin B.V.
5 August 2025

Certification Board

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Standards/Normative documents:

IEC 62052-11: 2020

"Electricity metering equipment - General requirements, tests and test conditions - Part 11: Metering equipment"

IEC 62053-41: 2021

"Electricity metering equipment - Particular requirements - Part 41: Static meters for DC energy (classes 0,5 and 1)"

IEC 62052-31: 2015

"Electricity metering equipment -General requirements, tests and test conditions- Part 31: Product safety requirements and tests"

Characteristics of the measuring instrument	
Model	PM335 and EM235
Accuracy class	0,5 for DC energy (IEC 62053-41)
Destined for the measurement of	electrical energy, in a - one-phase two-wire network
Channels	The meter is designed to operate with three channels simultaneously. All tests detailed in the test reports were primarily conducted on Channel 1. Channels 2 and 3 were also subjected to verification using various combinations of voltage and current during accuracy testing. The results obtained from Channel 1 are considered valid for Channels 2 and 3, as their performance was found to be consistent.
U_{ref}	600 ... 1500 VDC
I_{min}	15A; 6A; 3,6A; 1,8A
I_b	500A; 200A; 120A; 60A
I_{max}	2500A; 1000A; 600A; 300A
Relevant product standards	IEC 62052-11:2020; IEC 62053-41:2021; IEC 62052-31:2015
AUX Power	90 ... 318 VAC or 40 ... 290VDC
Classification of installation and use	OVC III
Environmental conditions	Operation : -25 °C ... +55 °C Storage : -30 °C ... +85 °C Altitude : up to 2000 m
Degree of protection	IP51
Protective class	II



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Rated impulse voltage	Up to 12 kV (BI)
Software version	PM335 - Version: 44.5.XX.YY / Checksum: 9CB6 EM235 - Version: 40.5.XX.YY / Checksum: 69BC
Hardware version	Ethernet board: PC0369 REV B / Logic board: PC0414 REV C or PC0414 REV F / Display board: PC0374 REV C or PC0374 REV D / CT board: PC0415 REV B / Analog board: PC0416 REV C / VRM board: PC0404 REV A2
External Power supply for UHACS sensors (conditional part)	
FCS-300, FCS-600	TRACO TMP 15215C ($\pm$ 15VDC / 15W)
FCS-1000	TRACO TMP 30215C ($\pm$ 15VDC / 30W)
FCS-2500-13	MeanWell HDR 30-24 (2xPS connected in parallel)
The power supply is a conditional part and may be replaced, provided it meets the specifications outlined in the certificate and installation manual.	
UHACS sensors primary current ranges (output 40mA)	
FCS-300	1,8-60 (300)A
FCS-600	3,6-120 (600)A
FCS-1000	6-200 (1000)A
FCS-2500-13	15-500 (2500)A

Certificate history:

This revision replaces the previous version

Revision	Date	Description of the modification
0	24-06-2025	First issued.
1	05-08-2025	Editorial correction, addition of doc-folder NMI-CoC-25.19-1 and type evaluation reports NMI-3644009-01 and NMI-3644009-04.