



OIML Certificate

OIML Member State
The Netherlands

Number R46/2012-A-NL1-23.07 revision 1
Project number 3780944
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Issuing authority NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and manufacturer Landis+Gyr AG
Alte Steinhauserstrasse 18
CH-6330 Cham
Switzerland

Identification of the certified type A static **Poly Phase Electrical Energy Meter**
Manufacturers mark: Landis+Gyr
Type: E860 (f9 – rack-mounted version)

Characteristics See following page(s)

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 46-1/-2 (2012) "Active electrical energy meters"

Accuracy class D

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above.
This Certificate does not bestow any form of legal international approval.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**
7 March 2024

Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.



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The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMI-3522680-14 dated 4 July 2023 that includes 55 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

In Table 2 the characteristics of the family of instruments are presented.

The construction of the measuring instrument is recorded in the Documentation folder no. R46-2012-A-NL1-23.02-1.

Table 1 General characteristics

General characteristics	
Meter type	static
Connection mode (phase, wires, elements)	3p, 4w, 3e 3p, 3w, 2e
Direction of energy flow / registers	Two-registers, bi-directional.
Terminal arrangement	Direct plug-in Essailec connectors
Protective class	Category 1
Environmental application	
Ambient temperature range	-25 °C to +55 °C
Humidity class	H1
IP Rating / environmental use	IP51 / indoor
Meter quantities	
Nominal voltage (U_{nom})	Nominal voltage U_n (3-phase, 4-wire) 3 x 58/100 to 69/120 V 3 x 110/190 to 133/230 V Nominal voltage U_n (3-phase, 3-wire) 3 x 100 to 120 V 3 x 190 to 230 V
Nominal frequency (f_{nom})	50 Hz or 60 Hz
Maximum current (I_{max})	$I_n = 1$ A - I_{max} 1.2 A, 1.5 A, 2 A or 10 A $I_n = 5$ A - I_{max} 6 A, 7.5 A or 10 A
Transitional current (I_{tr})	0.05 A ($I_n = 1$ A), 0.25 A ($I_n = 5$ A)
Minimum current (I_{min})	0.01 A ($I_n = 1$ A), 0.05 A ($I_n = 5$ A)
Starting current (I_{st})	0.001 A ($I_n = 1$ A), 0.005 A ($I_n = 5$ A)



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Meter constant	5.000 imp/kWh, 10.000 imp/kWh, 20.000 imp/kWh, 40.000 imp/kWh, 50.000 imp/kWh, 100.000 imp/kWh, 200.000 imp/kWh
Product version	
Hardware version	S1
Software identification	Version number: U.201.04.08 Checksum: 0647C93E6D9DEF29B240DEA4CE847335645C1D246BE B47C848D6AC9B19AD19CD2CF594D83D253DD70F664 A10E006819
	Version number: U.201.05.02 Checksum: 13A1A7D6AB9B5027A3725812CE1B804932887181B3D7 322C5C9DE0F0BCFCA0E4B41E8EC2D93CBD8FAD712B9 1C4290005
	Version number: U.201.05.03 Checksum: 52BD0C34AFA5F64DE3DE95EC6B46D3538ACE3D1E832 59EFE8AA8388AD6E31037AF590E79B79BC8ADE7E7E0E 975B07C84

Production location

The measuring instrument is produced at one of the following production locations:

Landis+Gyr A.E.
78 km National Road Athens-Corinth
GR-20100 Corinth
Greece



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Certificate history:

Revision	Date	Description of the modification
0	11-12-2023	Firmware update of the meter type E860 (f9 – rack-mounted version) with added features and OBIS code change of the FW and checksum identification to IDIS standardised OBIS codes. New firmware version U201.05.02
1	07-03-2023	<ul style="list-style-type: none">– Firmware update of the meter type E860 (f9 – rack-mounted version). New firmware version U.201.05.03 <ul style="list-style-type: none">– Editorial corrections of the firmware versions.