

**OIML Member State**  
The Netherlands

Number R46/2012-A-NL1-23.07 revision 2  
Project number 3752814  
Page 1 of 4

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**  
27 June 2024

Certification Board

NMI Certin B.V.  
Thijssseweg 11  
2629 JA Delft  
the Netherlands  
T +31 88 636 2332  
[certin@nmi.nl](mailto:certin@nmi.nl)  
[www.nmi.nl](http://www.nmi.nl)

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMI Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://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.



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

**Table 1 General characteristics**

<b>General characteristics</b>	
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 Essalec connectors
Protective class	Category 1
<b>Environmental application</b>	
Ambient temperature range	-25 °C to +55 °C
Humidity class	H1
IP Rating / environmental use	IP51 / indoor
<b>Meter quantities</b>	
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 ( $I_{max}$ )	$I_n = 1\text{ A} - I_{max} 1.2\text{ A}, 1.5\text{ A}, 2\text{ A}$ or $10\text{ A}$ $I_n = 5\text{ A} - I_{max} 6\text{ A}, 7.5\text{ A}$ or $10\text{ A}$
Transitional current ( $I_{tr}$ )	0.05 A ( $I_n = 1\text{ A}$ ), 0.25 A ( $I_n = 5\text{ A}$ )
Minimum current ( $I_{min}$ )	0.01 A ( $I_n = 1\text{ A}$ ), 0.05 A ( $I_n = 5\text{ A}$ )
Starting current ( $I_{st}$ )	0.001 A ( $I_n = 1\text{ A}$ ), 0.005 A ( $I_n = 5\text{ A}$ )
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

<b>Product version</b>	
Hardware version	S1
Software identification	Version number: U.201.04.08 Checksum: 0647C93E6D9DEFE29B240DEA4CE847335645C1D246B EB47C848D6AC9B19AD19CD2CF594D83D253DD70F66 4A10E006819
	Version number: U.201.05.02 Checksum: 13A1A7D6AB9B5027A3725812CE1B804932887181B3 D7322C5C9DE0F0BCFCA0E4B41E8EC2D93CBD8FAD71 2B91C4290005
	Version number: U.201.05.03 Checksum: 52BD0C34AFA5F64DE3DE95EC6B46D3538ACE3D1E83 259EFE8AA8388AD6E31037AF590E79B79BC8ADE7E7 E0E975B07C84
	Version number: U.201.06.02 Checksum: 2693EB3AF9471E4EAE69A41A72683D607097FB84B15 376AF6E065CD3B3A857D615BC59568DDB0E4C22AE8 364A6683A92

### 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

### Certificate history:

This revision replaces the previous version.

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  Certificate based on OIML certificate R46/2012-A-NL1-23.01 revision 0.



**OIML Member State**  
The Netherlands

# OIML Certificate

Number R46/2012-A-NL1-23.07 revision 2  
Project number 3752814  
Page 4 of 4

Revision	Date	Description of the modification
1	07-03-2023	Firmware update of the meter type E860 (f9 – rack-mounted version). New firmware version U.201.05.03  Editorial corrections of the firmware versions.
2	27-06-2024	Firmware update of the meter type E860 (f9 – rack-mounted version). New firmware version U.201.06.02