

OIML Member State
The Netherlands

Number R46/2012-A-NL1-23.06 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 (f6 – wall-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

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

- No. NMI-3522680-05 dated 22 May 2023 that includes 55 pages.
- No. NMI-3752814-07 dated 27 June 2024 that includes 16 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-NL1-23.01-2.

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 | DIN |
| Protective class | Category 2 |
| Environmental application | |
| Ambient temperature range | -25 °C to +55 °C |
| Humidity class | H1 |
| IP Rating / environmental use | IP54 / 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}) | $I_n = 0.3 \text{ A} - I_{max} 1.2 \text{ A or } 6 \text{ A}$ $I_n = 1 \text{ A} - I_{max} 1.2 \text{ A, } 1.5 \text{ A, } 2 \text{ A or } 10 \text{ A}$ $I_n = 5 \text{ A} - I_{max} 6 \text{ A, } 7.5 \text{ A or } 10 \text{ A}$ |
| Transitional current (I_{tr}) | 0.015A ($I_n=0.3A$), 0.05A ($I_n=1A$), 0.25A ($I_n=5A$) |
| Minimum current (I_{min}) | 0.003A ($I_n=0.3A$), 0.01A ($I_n=1A$), 0.05A ($I_n=5A$) |
| Starting current (I_{st}) | 0.0003A ($I_n=0.3A$), 0.001A ($I_n=1A$), 0.005A ($I_n=5A$) |

| | |
|-------------------------|--|
| 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: 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 (f6 – wall-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. |
| 1 | 07-03-2024 | Firmware update of the meter type E860 (f6 – wall-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 (f6 – wall-mounted version) which adds but not limited to a possibility to change the measurement mode for the network type (4-wire or 3-wire measurement) by the user in the field. New firmware version U.201.06.02 Added new type designation to docfolder R46-2012-A-NL1-23.01-2. |