

OIML Member State
The Netherlands

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Project number 3499886
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Issuing authority NMI Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer
Goldcard Water Technology Co., Ltd.
No. 158 Jinqiao Street
Qiantang District, Hangzhou
Zhejiang 310018
P.R. China

Identification of the certified type
An ultrasonic **water meter**
Type: LXC-xxSC¹

Characteristics See following page(s)

Remark 1) xx denotes the size identification (i.e. 15 for DN15)

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 49-1: 2013 "Water meters intended for the metering of cold potable water and hot water"

Accuracy class 2

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.

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**
6 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-3499886-01 dated 6 June 2024 that includes 27 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. T12665-1.

Table 1 General characteristics

| | |
|-----------------------------------|--|
| Measuring principle | Ultrasonic |
| Accuracy class | 2 |
| Environmental class | M1 / O (installed outdoors) |
| Electromagnetic environment | E1 |
| Temperature range ambient | -25 °C / +55 °C |
| Water temperature class | T50 (+0,1 °C / +50 °C) |
| Maximum admissible pressure (MAP) | 1,6 MPa (16 bar) |
| Orientation | Horizontal |
| Flow profile sensitivity class | U0 and D0 (0 x DN upstream and 0 x DN downstream) |
| Reverse flow | The sensor is not intended to measure reverse flow |
| Pressure loss class | Δp 63 (0,63 bar) |
| Power supply | Non-replaceable battery (2,8 – 3,6 V) |
| Software identification | Version number: 58506508 Checksum: 8CF979C0 |

Table 2 General characteristics of the family of instruments

| Meter size | Ø in- and outlet [mm] | Flow rates [m ³ /h] | | | | Ratio Q3/Q1 |
|------------|-----------------------|--------------------------------|-----------------|--------------|-------------|-------------|
| | | Minimum Q1 | Transitional Q2 | Permanent Q3 | Overload Q4 | |
| DN15 | 15 | 0,006 | 0,01 | 2,5 | 3,125 | 400 |
| DN20 | 20 | 0,01 | 0,016 | 4 | 5 | 400 |
| DN25 | 25 | 0,016 | 0,025 | 6,3 | 7,875 | 400 |
| DN32 | 32 | 0,025 | 0,04 | 10 | 12,5 | 400 |

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Please note that the flow rates Q1, Q2, Q3 and Q4 can be freely chosen as long as:

- Values Q3 and ratio Q3/Q1 are selected from paragraph 4.1 of OIML R49-1: 2013(E);
- Values mentioned for Q1 and Q2 are minimum values and the ratio Q2/Q1 = 1,6;
- Values mentioned for Q3 and Q4 are maximum values and the ratio Q4/Q3 = 1,25;
- The ratio Q3/Q1 is at least 40.

Table 3 General characteristics of the indicating device

| Meter size | Indicating range (maximum value) [m ³] | Verification scale interval (minimum resolution) [m ³] |
|-------------|--|--|
| DN15; DN20; | 99999,99999 | 0,00001 |
| DN25; DN32 | 999999,9999 | 0,00001 |

Certificate history:

| Revision | Date | Description of the modification |
|----------|-------------|---------------------------------|
| 0 | 6 June 2024 | - |