

**OIML Member State**  
The Netherlands

Number R 49/2006-A-NL1-26.06 revision 0  
Project number 3719708  
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Issuing authority NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Elster Water Metering Ltd.  
130 Camford Way, Sundon Park, Luton  
Bedfordshire, LU3 3AN  
United Kingdom

Identification of the certified type A volumetric **water meter**  
Type: V100 and V200 with nominal capacity of 3,25 rev/liter

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 49-1: 2006** "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.

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

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Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
13 April 2026

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-3719708-01 dated 7 May 2026 that includes 41 pages.

### Characteristics of the measuring instrument

In Table 1 and 2 the general characteristics of the measuring instrument are presented. In Table 3 and 4 the characteristics of the family of instruments are presented. The construction of the measuring instrument is recorded in the Documentation folder no. 3719708-1.

**Table 1 General characteristics**

|                                   |  |
|-----------------------------------|--|
| Measuring principle               | Volumetric   |
| Accuracy class                    | 2  |
| Temperature range ambient         | -25 °C / +55 °C                                    |
| Water temperature class           | T30 (+0,1 °C / +30 °C)                             |
| Maximum admissible pressure (MAP) | 1,6 MPa (16 bar)                                   |
| Orientation                       | All positions (Horizontal, vertical or diagonal)   |
| 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               | $\Delta p$ 63 (0,63 bar)                           |

**Table 2 Additional characteristics for the Hybrid III, Hybrid IV and Hybrid V registers**

|                             |  |                |             |
|-----------------------------|--|----------------|-------------|
| Environmental class         | M1 / O (installed outdoors)            |                |             |
| Electromagnetic environment | E1                                     |                |             |
| Power supply                | Non-replaceable battery (2.5 – 3.75 V) |                |             |
| Software identification*    | Register Name                          | Version Number | Checksum    |
|                             | Hybrid III                             | V03            | 2A5E        |
|                             | Hybrid IV                              | V60.00         | 3E 77 3A D6 |
|                             |  | V60.01         | 5D D3 A0 2F |
|                             |  | V60.02         | 32 2A C1 1D |
|                             |  | V60.03         | A4 97 40 30 |
|                             | Hybrid V                               | V61.00         | 29 06 EA 26 |
| V61.01                      |  | E2 60 10 41    |             |

\*) The software version and checksum are displayed on the meter during the circular sequence.

**Table 3 General characteristics of the family of instruments**

| Meter name | Revs/Liter [RPL] | Flow rates [m <sup>3</sup> /h] |                 |              |             | Ratio Q3/Q1 |
|------------|------------------|--------------------------------|-----------------|--------------|-------------|-------------|
|            |                  | Minimum Q1                     | Transitional Q2 | Permanent Q3 | Overload Q4 |             |
| V100       | 3,25             | 0,125                          | 0,200           | 10           | 12,5        | 80          |
| V200       | 3,25             | 0,125                          | 0,200           | 10           | 12,5        | 80          |
| V100       | 3,25             | 0,080                          | 0,128           | 16           | 20          | 200         |
| V200       | 3,25             | 0,080                          | 0,128           | 16           | 20          | 200         |

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 3.1 of OIML R49-1: 2006(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 10.

**Table 4 General characteristics of the indicating device**

| Meter name | Register Variant             | Indicating range (minimum value) [m <sup>3</sup> ] | Verification scale interval (minimum resolution) [m <sup>3</sup> ] |
|------------|------------------------------|--|--|
| V100       | 4x4 Register                 | 9999,99999   | 0,00001  |
|            | 5x3 Register                 | 99999,9999   | 0,0001   |
| V110       | 4x4 Register                 | 9999,99999   | 0,00001  |
|            | 5x3 Register                 | 99999,9999   | 0,0001   |
| V200       | Mechanical                   | 99999,99998  | 0,00002  |
|            | Hybrid III, IV or V Register | 999999,99999                                       | 0,00001  |
| V210       | Mechanical                   | 99999,99998  | 0,00002  |
|            | Hybrid III, IV or V Register | 999999,99999                                       | 0,00001  |



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## Production locations

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

- ELSTER WATER METERING LTD  
130 Camford Way, Sundon Park, Luton, Bedfordshire, LU3 3AN,  
United Kingdom
- ELSTER S.R.O  
Dr. Alberta Schweitzera 194, 916 01 Stara Tura  
Slovakia
- ELSTER METERING (PTY) LTD  
55 Northcorp Boulevard, Broadmeadows, Melbourne, Victoria, 3047  
Australia

## Certificate history:

| Revision | Date          | Description of the modification |
|----------|---------------|---------------------------------|
| 0        | 13 April 2026 | Initial issue                   |
|          |               |                                 |