

**OIML Member State**  
The Netherlands

Number R 49/2006-A-NL1-26.03 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, V110, V200, V210 and V220 with nominal capacity of 16,5 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 13 April 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
	Hybrid V	V60.03	A4 97 40 30
		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	16,5	0,010	0,016	4	5	400
V110	16,5	0,010	0,016	4	5	400
V200	16,5	0,010	0,016	4	5	400
V210	16,5	0,010	0,016	4	5	400

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 <sup>1</sup>	99999,9999	0,0001
V110	4x4 Register	9999,99999	0,00001
	5x3 Register <sup>1</sup>	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

<sup>1</sup> The 5x3 register shall only be used if the meter has a Q1 greater than 0,013 m<sup>3</sup>/h.



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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 MEDICIÓN S.A.U  
Pol. Masti-Loidi, 13 - CP. 20100 Erreterria  
Spain
- GEORGE KENT (MALAYSIA) BERHAD  
1115, Blok A, Jalan Puchong, Taman Meranti Jaya,  
47120 Puchong Selangor Darul Ehsan  
Malaysia
- ELSTER METERING (PTY) LTD  
55 Northcorp Boulevard, Broadmeadows, Melbourne, Victoria, 3047  
Australia
- COLOMBIA LOMBIANA DE MEDIDORES TAVIRA S.A .  
Avenida De Las Americas No. 66 A-08 – Bogota  
Colombia
- ELSTER KENT METERING (PTY) LTD  
64 Commando Road, Industria Ext 2, Johannesburg, Gauteng, 2093  
South Africa
- THAI METERS CO. LTD  
262-268 Vorachak Road, Ban Bat, Pom Prap Sattru Phai, Bangkok 10100  
Thailand

## Certificate history:

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