

OIML Member State
The Netherlands

Number R 49/2013-A-NL1-22.01 revision 1
Project number 3725759
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Issuing authority NMi Certin B.V.
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Identification of the certified type An electromagnetic **water meter**
Type: MUT7000

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: 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.

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Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**
16 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-2652375-01 dated 24 May 2022 that includes 29 pages.
- No. NMI-3725759-01 dated 16 April 2026 that includes 17 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. T12283-2.

Table 1 General characteristics

Measuring principle	Electromagnetic
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	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 also designed to measure reverse flow. The reverse flow is recorded on a separate volume totalization. Also for reverse flow another pulse output is used.
Pressure loss class	Δp 16 (0,16 bar)
Power supply	The water meter is powered by means of: - A replaceable battery of 3,6 V (operating range: 2,9 3,7 V); - DC mains 10,8 – 13,2 V.

Table 2 Software identification

Identification	Software versions	CRC Checksum(*)	Remarks
Bootloader	1.06	b4F9C9Ab	-
	1.07	2300801C	-
Legally relevant firmware	1.08	AC406F7C	-
	2.06	292FE3E8	-

Note: (*) The checksum is stated as a hexadecimal value.

The software version and checksum are shown after powering up the device or can be check by bringing the magnet close to the reed for 5 seconds. Bootloader and firmware version are shown as the third and fourth screen after entering the menu system of the meter.

Table 3 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	
DN50/2"	50	0,1	0,16	40	50	400
DN80/3"	80	0,25	0,4	100	125	400
DN100/4"	100	0,4	0,64	160	200	400
DN150/6"	150	1,0	1,6	400	500	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 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 4 General characteristics of the indicating device

Meter size	Indicating range (minimum value) [m ³]	Verification scale interval (minimum resolution) [m ³]
DN50; DN80; DN100; DN150	99999999,99999	0,00001

On the extended totalizer display the volume in whole cubic meters is presented at the first line and the decimals of the cubic meters (after the comma) are presented at the second line.

The extended totalizer display can be shown by swiping the magnet (attached to the meter) until the extended totalizer display is shown.



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Certification history

This revision replaces the previous version.

Revision	Date	Description of the modification
0	24 May 2022	Initial release
1	16 April 2026	Addition of DN50 and DN150, software update and address change