

OIML Member State
The Netherlands

Number R 49/2013-A-NL1-21.02 revision 4
Project number 4084921
Page 1 of 5

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

Applicant Badger Meter, Inc.
4545 West Brown Deer Road
Milwaukee, WI 53224
United States of America

Manufacturer Badger Meter Czech Republic s.r.o.¹
Maříkova 2082/26
62100 Brno
Czech Republic

Identification of the certified type An electromagnetic **water meter**
Type: M2000

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 1 and 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.

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.

¹ This measuring instrument was previously placed on the market under the name "Badger Meter Europe GmbH, Nürtinger Straße 76, 72639 Neuffen, Germany"

Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
5 March 2026

Certification Board

The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-13200483-01 Revision 1 dated 7 July 2022 that includes 29 pages;
- No. NMI-3531004-02 dated 7 April 2023 that includes 18 pages.
- No. NMI-3948757-02 dated 23 December 2025 that includes 25 pages.

Characteristics of the measuring instrument

In Table 1 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. T10970-3.

Table 1 General characteristics

Measuring principle	Electromagnetic flow metering
Accuracy class	1 and 2
Environmental class	M1 / O (installed outdoors)
Electromagnetic environment	E2
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 intended to measure reverse flow
Pressure loss class	Δp 10 (0,10 bar)
Power supply	AC version: 85 – 265 VAC (45 – 65 Hz) or DC version: 9 – 36 VDC Grounding is mandatory for both versions
Software identification	See table 2
Legally relevant parameters	<ul style="list-style-type: none"> - The settings in the "Meter setup" and "Measurement" sections shall be in accordance with calibration data. - The "Totalizer Unit" shall be set to cubic meter M³. - The "dial type" and "resolution" must be set according to the table 4.

Table 2 software identification

Version	Checksum per language						
	English / German	English / Czech	English / Spanish	English / French	English / Russian	English / Swedish	English / Turkish
v1.15	DBDE	A020	7909	B8D6	A351	F370	477E
v1.18	6B41	6231	424E	83F6	74A1	DC9F	30AB
V1.19	92F2	D414	E27D	7501	225C	0156	B8AA
V1.20	FAD0	418C	9833	7EA8	5DB6	C8DC	A0C5
V1.21	5436	A588	064A	EEF2	D7B1	0B1F	BDFD
V1.22	9CDF	F1B5	5640	3F93	2B65	4B8A	F2DE
V1.23	4D0A	A1E9	676	EFC6	DB91	FBC2	A30F
V1.24	2D7C	9742	C814	A2A7	6355	E816	5CB2
V1.25	3F18	AE59	E5A3	C16B	8668	ED4B	4BCF
V1.26	501	7238	A716	8274	2978	B7DC	1EAC
V1.27	A57D	BDD	38AC	126D	D073	67F1	EA42

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	50	0,252	0,4032	63	78,75	250
DN65	65	0,4	0,64	100	125	250
DN80	80	0,64	1,024	160	200	250
DN100	100	1	1,6	250	312,5	250
DN125	125	1,6	2,56	400	500	250
DN150	150	2,52	4,032	630	787,5	250
DN200	200	4	6,4	1000	1250	250
DN250	250	6,4	10,24	1600	2000	250
DN300	300	10	16	2500	3125	250
DN350	350	10	16	2500	3125	250
DN400	400	16	25.6	4000	5000	250
DN450	450	25.2	40.32	6300	7875	250

Meter size	Ø in- and outlet [mm]	Flow rates [m ³ /h]				Ratio Q3/Q1
		Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	
DN500	500	25.2	40.32	6300	7875	250
DN600	600	25.2	40.32	6300	7875	250
DN800	800	40	64	10000	12500	250

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 (maximum value) [m ³]	Totalizer Resolution setting	Dial type setting
DN50	99 999	0,0001	0,0001	6 dial
DN65 till DN150	999 999	0,001	0,001	7 dial
DN200 till DN600	9 999 999	0,01	0,01	8 dial
DN800	99 999 999	0,1	0,1	9 dial



OIML Member State
The Netherlands

OIML Certificate

Number R 49/2013-A-NL1-21.02 revision 4
Project number 4084921
Page 5 of 5

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	11 January 2021	-
1	17 March 2022	Added production location.
2	7 April 2023	Extension of line sizes and added software revisions.
3	23 December 2025	Evaluation of remote mount version and software revision.
4	5 March 2026	Manufacturer name change, documentation folder update, and checksum number correction on software version V.27