



OIML Certificate

OIML Member State
The Netherlands

Number R49/2013-A-NL1-25.02 revision 0
Project number 3971882
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Issuing authority
Person responsible: NMI Certin B.V.
M.Ph.D. Schmidt

Applicant and
Manufacturer Bermad CS. Ltd
Kibbutz Evron 2280800
Israel

Identification of the
certified type An electromagnetic **water meter**
Type: MUT7000

Characteristics See page 2 and further
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
12 June 2025

Certification Board

NMI Certin B.V.
Thijssseweg 11
2629 JA Delft
The Netherlands
T +31 88 636 2332
certin@nmi.nl
www.nmi.nl

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The notification of NMI Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.



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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.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

Table 2 gives an overview of the general characteristics of the family of instruments.

The construction of the measuring instrument is recorded in the Documentation folder no. T12283-1.

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	-
Legally relevant firmware	1.08	AC406F7C	-

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.

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Table 3 General characteristics of the family of instruments

Meter size	Ø in- and outlet [mm]	Flow rates [m³/h]				Ratio Q3/Q1
		Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	
DN80/3"	80	0,25	0,4	100	125	400
DN100/4"	100	0,4	0,64	160	200	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) [m³]	Verification scale interval (minimum resolution) [m³]
DN80; DN100	999999,999	0,00001

Certificate history:

Revision	Date	Description
Initial	12 June 2025	Initial release.