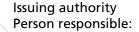




OIML Member State

The Netherlands

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NMi Certin B.V. M.Ph.D. Schmidt

Applicant and Manufacturer

KROHNE Altometer Kerkeplaat 12 3313 LC Dordrecht The Netherlands

Identification of the certified type

An electromagnetic water meter

Type: WATERFLUX 3070

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 1 and 2

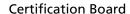
This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

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.

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1 30 July 2024



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

- No. R49-1/2006-NL1-09.01 dated 16 September 2009 that includes 41 pages and 14 annexes;
- No. R49-1/2006-NL1-10.01 dated 9 April 2010 that includes 40 pages and 3 annexes;
- No. R49-1/2006-NL1-11.01 dated 2 May 2011 that includes 40 pages and 4 annexes;
- No. R49-1/2006-NL1-12.01 dated 28 March 2012 that includes 40 pages and 3 annexes;
- No. NMi-13200194-01 dated 18 July 2013 that includes 2 pages and 1 annex;
- No. NMi-13200159-01 dated 18 March 2015 that includes 6 pages and 1 annex;
- No. NMi-15200645-01 dated 30 March 2016 that includes 21 pages and 4 annexes;
- No. NMi-2224507-01 dated 30 December 2020 that includes 27 pages and 4 annexes.

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. T10201-11.

Table 1 General characteristics

Measuring principle	Electromagnetic
Accuracy class	1 and 2
Environmental class	M2 O (installed outdoors) for software version 5.0.1_ or higher B (installed in a building) for software version 4.3.1_ or lower
Electromagnetic environment	E2
Temperature range ambient	-25 °C / +55 °C for software version 5.0.1_ or higher -10 °C / +55 °C for software version 4.3.1_ or lower
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 designed to measure reverse flow	
Pressure loss class	Δp 63 (0,63 bar)
Power supply	3,6 Volts D-cell Lithium replaceable battery; or Flexpower for software version 5.0.1_ or higher: - 3,6 Volts D-cell Lithium battery (non-replaceable battery) - 9 30 VDC - 100230 VAC / 50-60Hz (+/-2 %)







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	Software versions	CRC checksum	
	4.0.4_, 4.0.10_, 4.0.11_, 4.0.12_, 4.2.2_, 4.2.4_, 4.2.5_, 4.2.6_, 4.3.0_, 4.3.1_	Not applicable	
Software identification	5.0.1_	4Cb5	
	5.0.2_	71d5	
	5.0.3_	CFF7	
	5.0.5_	dCAb	
	5.1.0_	Ab62	

Note: In case of software version 4.3.1_ or lower the Field Current can only be set to 16 mA. For software version 5.0.1_ or higher the different Field Currents can be selected and shall be set to 16 mA.

Table 2 General characteristics of the family of instruments

Meter	Accuracy	Flow rates [m³/h]				
size	class	Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	Ratio Q3/Q1
DNDE	2	0,025	0,04	10	12,5	400
DN25	2	0,04	0,064	16	20	400
DNI40	N40 3	0,0625	0,1	25	31,25	400
DN40	2	0,1	0,16	40	50	400
DN50	2	0,1	0,16	40	50	400
DIVO	2	0,1575	0,252	63	78,75	400
	2	0,1575	0,252	63	78,75	400
DN65	2	0,25	0,4	100	125	400
	1	0,4	0,64	100	125	250
	2	0,25	0,4	100	125	400
DN80		0,4	0,64	160	200	400
DIAGO	1	0,625	1	100	125	160
	l	0,64	1,024	160	200	250







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Meter	Accuracy	Flow rates [m³/h]				Ratio
size	class	Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	Q3/Q1
	2	0,4	0,64	160	200	400
DN100	2	0,625	1	250	312,5	
DN 100	1	1	1,6	160	200	160
	I	1	1,6	250	312,5	250
	2	0,625	1	250	312,5	
DNI43E	2	1	1,6	400	500	400
DN125	4	1,5625	2,5	250	312,5	160
	1	1,6	2,56	400	500	250
	2	1	1,6	400	500	400
		1,575	2,52	630	787,5	
DN150	+1	2,5	4	400	500	160
	1	2,52	4,032	630	787,5	250
DNI200	2	1,575	2,52	630	787,5	400
DN200	1	3,9375	6,3	630	787,5	160
DNIDEO	2	2,5	4	1000	1250	400
DN250	1	6,25	10	1000	1250	160
DNIDGO	2	4	6,4	1600	2000	400
DN300	1	10	16	1600	2000	160
DN350	1 or 2	15,625	25	2500	3125	160
DN400	1 or 2	25	40	4000	5000	160
DN450	1 or 2	25	40	4000	5000	160
DN500	1 or 2	39,375	63	6300	7875	160
DN600	1 or 2	63	100,8	6300	7875	100
	L		1			













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Table 3 General characteristics of the indicating device

Meter size	Indicating range (minimum value) [m³]	Verification scale interval (maximum value) [m³]
DN25, DN40 and DN50	99.999.999	0,0001
DN65, DN80, DN100, DN125 and DN150	99.999.999	0,001
DN200, DN250, DN300, DN350, DN400 and DN450	99.999.999	0,01
DN500 and DN600	99.999.999	0,1

Production location

The water meter is produced at one of the following production locations:

- KROHNE Altometer Kerkeplaat 12 3313 LC Dordrecht The Netherlands.
- KROHNE Measurement Technology (Shanghai) Co., Ltd. No. 555 Minshen Road, Songjiang Industrial Zone Shanghai 201612 China















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Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification	
Initial	26 January 2021	-	
1	3 May 2022	Added alternative Modbus PCB components	
2	12 June 2023	Added Alternative Micro Controller Unit (MCU)	
3	30 July 2024	Added second production location	









