



OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R49-1/2006-NL1-12.01 revision 7
Project number 15200645
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	KROHNE Altometer Kerkeplaat 12 3313 LC Dordrecht The Netherlands
Identification of the certified type	A water meter Type : WATERFLUX 3070 Water meter intended for the metering of cold potable water and hot water, model "WATERFLUX 3070", class 1 and 2.
Characteristics	See page 2 and further

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

- R49-1/2006 (E)**: Metrological and technical requirements
- R49-2/2006 (E)**: Test methods
- R49-3/2006 (E)**: Test Report format

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 Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**
30 March 2016



C. Oosterman
Head Certification Board

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This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

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

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMI (see www.nmi.nl).





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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- Number R49-1/2006-NL1-09.01 that includes 41 pages and 14 annexes;
- Number R49-1/2006-NL1-10.01 that includes 40 pages and 3 annexes;
- Number R49-1/2006-NL1-11.01 that includes 40 pages and 4 annexes;
- Number R49-1/2006-NL1-12.01 that includes 40 pages and 3 annexes;
- Number NMI-13200159-01 that includes 6 pages and 1 annex;
- Number NMI-15200645-01 that includes 21 pages and 4 annexes.

Identification of the certified pattern

Water meter intended for metering cold potable water and hot water, based on an electromagnetic principle, designed to measure forward and reverse flow, with (minimum) 0 D straight inlet and outlet, with no flow conditioner and equipped with an electronic calculating/indicating device. The construction of the water meter is recorded in the Documentation folder no. 10201-6.

Metrological characteristics:

Type	:	WATERFLUX 3070
Min/max admissible temperature (°C)	:	0,1/50
Maximum pressure	:	16 bar(g) for sizes DN200 and smaller 10 bar(g) for sizes DN250 and larger
Indicating range (m ³)	:	99.999.999
Orientation	:	All positions
Environmental class	:	C
Power supply	:	- Battery 3,6 V
Type	:	- External battery pack with output 3,6 V
U _{battery}	:	- FlexPower (optional for SW 5.0.1_ or higher) 10...30V DC or 110...230V AC / 50-60Hz
Software versions	:	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_ , 5.0.1_

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.



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Meter size	Accuracy class	Flow rate [m ³ /h]				Ratio Q3/Q1
		Min. Q1	Trans. Q2	Perm. Q3	Over. Q4	
DN25	2	0,025	0,04	10	12,5	400
		0,04	0,064	16	20	
DN40	2	0,0625	0,1	25	31,3	400
		0,1	0,16	40	50	
DN50	2	0,1	0,16	40	50	400
		0,1575	0,252	63	78,75	
DN65	2	0,1575	0,25	63	78,75	400
		0,25	0,4	100	125	
	1	0,4	0,64	100	125	250
DN80	2	0,25	0,4	100	125	400
		0,4	0,64	160	200	
	1	0,625	1	100	125	160
		0,64	1,02	160	200	250
DN100	2	0,4	0,64	160	200	400
		0,625	1	250	312,5	
	1	1	1,6	160	200	160
		1	1,6	250	312,5	250
DN125	2	0,625	1	250	312,5	400
		1	1,6	400	500	
	1	1,56	2,5	250	312,5	160
		1,6	2,56	400	500	250
DN150	2	1	1,6	400	500	400
		1,575	2,52	630	787,5	
	1	2,5	4	400	500	160
		2,52	4,03	630	787,5	250
DN200	2	1,575	2,52	630	787,5	400
	1	3,94	6,3	630	787,5	160
DN250	2	2,5	4	1000	1250	400
	1	6,25	10	1000	1250	160
DN300	2	4	6,4	1600	2000	400
	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



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Meter size	Indicating range [m ³]	Verification scale interval [m ³]
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

Revision History

This revision replaces the previous versions.

Revision	Date	Changes
Initial	28 March 2012	-
1	22 October 2012	New software version added
2	16 April 2013	New software version added
3	26 September 2014	New software version added
4	18 March 2015	Added sizes
5	21 April 2015	New software version added
6	13 July 2015	New software version added
7	30 March 2016	New electronics, software version and optional power supply added