



# OIML Certificate of Conformity

**OIML Member State**  
The Netherlands

Number R49-1/2006-NL1-12.01 revision 8  
Project number SO16202305  
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|                                      |  |
|--------------------------------------|--|
| Issuing authority                    | NMi Certin B.V.<br>Person responsible: C. Oosterman  |
| Applicant and Manufacturer           | KROHNE Altometer<br>Kerkeplaat 12<br>3313 LC Dordrecht<br>The Netherlands  |
| Identification of the certified type | A <b>water meter</b><br>Type : WATERFLUX 3070<br><br>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**  
16 June 2016



C. Oosterman  
Head Certification Board

NMi Certin B.V.  
Hugo de Grootplein 1  
3314 EG Dordrecht  
the Netherlands  
T +31 78 6332332  
certin@nmi.nl  
www.nmi.nl

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](http://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](http://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. 10201-7.

Metrological characteristics:

|                                     |   |   |
|-------------------------------------|---|---|
| Type                                | : | WATERFLUX 3070  |
| Min/max admissible temperature (°C) | : | 0,1/50  |
| Maximum pressure                    | : | 16 bar(g) for sizes DN200 and smaller<br>10 bar(g) for sizes DN250 and larger                                   |
| Indicating range (m <sup>3</sup> )  | : | 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 <sub>battery</sub>                | : | - FlexPower (optional for SW 5.0.1_ or higher)<br>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_ ;<br>4.3.0_ , 4.3.1_ , 5.0.1_ , 5.0.2_ |

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 <sup>3</sup> /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         |
|            |                | 3,94                          | 6,3       | 630      | 787,5    |             |
|            | 1              | 6,25                          | 10        | 630      | 787,5    | 160         |
| DN250      | 2              | 2,5                           | 4         | 1000     | 1250     | 400         |
|            |                | 6,25                          | 10        | 1000     | 1250     |             |
|            | 1              | 6,25                          | 10        | 1000     | 1250     | 160         |
| DN300      | 2              | 4                             | 6,4       | 1600     | 2000     | 400         |
|            |                | 10                            | 16        | 1600     | 2000     |             |
|            | 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 <sup>3</sup> ] | Verification scale interval [m <sup>3</sup> ] |
|---|------------------------------------|---|
| 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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## 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 |
| 8        | 16 June 2016      | New software version added  |