

## OIML CERTIFICATE OF CONFORMITY

### Issuing authority

Name: NMI Certin B.V.  
Address: Hugo de Grootplein 1,  
3314 EG Dordrecht  
The Netherlands  
Person responsible: Ing. C. Oosterman

### Applicant

Name: Krohne Altometer  
Address: Kerkeplaat 12  
3313 LC Dordrecht  
The Netherlands

### Manufacturer of the certified type

Name: Krohne Altometer  
Address: Kerkeplaat 12  
3313 LC Dordrecht  
The Netherlands

### Identification of certified type

Type : OPTIFLUX x300C<sup>[1]</sup>; OPTIFLUX x000F<sup>[1]</sup> + IFC300y<sup>[1]</sup>

Water meter intended for the metering of cold potable water, model "OPTIFLUX x300C<sup>[1]</sup>; OPTIFLUX x000F<sup>[1]</sup> + IFC300y<sup>[1]</sup>", class 1 and 2.

Further characteristics: see page 3.

<sup>[1]</sup> With x being 1, 2, 4, 5 or 6 and with y being F or W.

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

**R49-1/2003 (E): Metrological and technical requirements**

**R49-2/2004 (E): Test methods**

**R49-3/2004 (E): Test Report format**

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

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

- No. R49-1/2003-NL1-06.01 that includes 193 pages (including Annexes)
- No. NMI-12200395-01 that includes 9 pages (including Annexes)

The Issuing Authority NL1  
NMI Certin, 29 June 2012



C. Oosterman  
Head Certification Board

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### Revision History

Revision	Date	Change(s)
Initial	17 March 2006	-
1	28 June 2012	Addition of several extra sizes

**Important note:** Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Report is not permitted, although either may be reproduced in full.

**Identification of the certified pattern – continued from page 1**

Water meter intended for metering cold potable water, based on a electromagnetic principle, designed to measure reverse flow, with straight inlet and outlet length, with no flow conditioner and equipped with an electronic calculating/indicating device.

Metrological characteristics:

Type: OPTIFLUX x300C<sup>[1]</sup>, complete water meter

OPTIFLUX x000F<sup>[1]</sup> + IFC300y<sup>[1]</sup>, combined water meter

Meter size	DN25	DN40	DN50	DN65	DN80	DN100	DN125
Minimum flow rate Q1 (m <sup>3</sup> /h)	0,040	0,063	0,10	0,16	0,25	0,4	0,6
Transitional flow rate Q2 (m <sup>3</sup> /h)	0,064	0,10	0,16	0,25	0,40	0,6	1,0
Permanent flow rate Q3 (m <sup>3</sup> /h)	16	25	40	100	160	250	400
Overload flow rate Q4 (m <sup>3</sup> /h)	20	31,3	50	125	200	312,5	500
Nominal diameter (mm)	25	40	50	65	80	100	125
Accuracy Class	2			1			
Maximum admissible pressure (bar)	16						
Min/max admissible temperature (°C)	0,1 / 50						
Indicating range (m <sup>3</sup> ) <sup>[2][4]</sup>	99.999			999.999			
Verification scale interval (m <sup>3</sup> ) <sup>[3][4]</sup>	0,0001			0,001			
Orientation	All positions						
Environmental class	C						
Power supply							
Type	mains AC			DC			
U <sub>max</sub>	230 V			24 V			
U <sub>min</sub>	100 V			12 V			
Frequency	50 – 60 Hz			-			

<sup>[1]</sup> With x being 1, 2, 4, 5 or 6 and with y being F or W.

<sup>[2]</sup> The indicating range is programmable, stated here is the minimum indicating range.

<sup>[3]</sup> The verification scale interval is programmable, stated here is the maximum value.

<sup>[4]</sup> The display of the totalizer has 11 digits (including 1 digit for the decimal sign. The format of the totalizer must be such that demands of the indicating range and the verification scale interval are met.



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Meter size	DN150	DN200	DN250	DN300	DN500	DN1200
Minimum flow rate Q1 (m <sup>3</sup> /h)	0,6	1,0	1,6	2,5	12,6	200
Transitional flow rate Q2 (m <sup>3</sup> /h)	1,0	1,6	2,6	4,0	20,2	320
Permanent flow rate Q3 (m <sup>3</sup> /h)	400	1000	1600	2500	6300	16000
Overload flow rate Q4 (m <sup>3</sup> /h)	500	1250	2000	3125	7875	20000
Nominal diameter (mm)	150	200	250	300	500	1200
Accuracy Class	1					
Maximum admissible pressure (bar)	16					
Min/max admissible temperature (°C)	0,1 / 50					
Indicating range (m <sup>3</sup> ) <sup>[1][3]</sup>	999.999	9.999.999			99.999.999	
Verification scale interval (m <sup>3</sup> ) <sup>[2][3]</sup>	0,001				0,01	
Orientation	All positions					
Environmental class	C					
Power supply	mains AC			DC		
Type	230 V			24 V		
Umax	100 V			12 V		
Umin	50 – 60 Hz			-		
Frequency						

[1] The indicating range is programmable, stated here is the minimum indicating range.

[2] The verification scale interval is programmable, stated here is the maximum value.

[3] The display of the totalizer has 11 digits (including 1 digit for the decimal sign. The format of the totalizer must be such that demands of the indicating range and the verification scale interval are met.