

OIML Member State
The Netherlands

Number R49-1/2006-NL1-11.03
Project number 11200755
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant	Itron Eau et Energie Thermique 11 Boulevard Pasteur 67500 Haguenau, France
Manufacturer	Itron Eau et Energie Thermique 11 Boulevard Pasteur 67500 Haguenau, France
Identification of the certified type	A Water meter Type : Sharpflow SOPX+CXP3
Characteristics	See next page

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):

OIML R49 - Edition 2006

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified.
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**
22 November 2011



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).



OIML Certificate of Conformity

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

- No. R49-1/2003-NL1-06.01; that includes 41 pages;
- No. R49-1/2003-NL1-06.01; Annex A that includes 1 page;
- No. R49-1/2003-NL1-06.01; Annex 1 that includes 21 pages;
- No. R49-1/2003-NL1-06.01; Annex 2 that includes 4 pages;
- No. R49-1/2003-NL1-06.01; Annex 3 that includes 11 pages;
- No. R49-1/2003-NL1-06.01; Annex 4 that includes 9 pages;
- No. R49-1/2003-NL1-06.01; Annex 5 that includes 7 pages;
- No. R49-1/2003-NL1-06.01; Annex 6 that includes 9 pages;
- No. R49-1/2003-NL1-06.01; Annex 7 that includes 8 pages;
- No. R49-1/2003-NL1-06.01; Annex 8 that includes 5 pages;
- No. R49-1/2003-NL1-06.01; Annex 9 that includes 2 pages;
- No. R49-1/2003-NL1-06.01; Annex 10 that includes 2 pages;
- No. R49-1/2003-NL1-06.01; Annex 11 that includes 8 pages;
- No. R49-1/2003-NL1-06.01; Annex 12 that includes 16 pages;
- No. R49-1/2003-NL1-06.01; Annex 13 that includes 4 pages;
- No. R49-1/2003-NL1-06.01; Annex 14 that includes 4 pages;
- No. R49-1/2003-NL1-06.01; Annex 15 that includes 6 pages;
- No. R49-1/2003-NL1-06.01; Annex 16 that includes 9 pages;
- No. R49-1/2003-NL1-06.01; Annex 17 that includes 26 pages.

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: Sharpflow SOPX+CXP3

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

^[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.



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Meter size	DN150	DN250	DN500
Minimum flow rate Q1 (m ³ /h)	0,6	1,6	12,6
Transitional flow rate Q2 (m ³ /h)	1,0	2,6	20,2
Permanent flow rate Q3 (m ³ /h)	400	1600	6300
Overload flow rate Q4 (m ³ /h)	500	2000	7875
Nominal diameter (mm)	150	250	500
Accuracy Class	1		
Maximum admissible pressure (bar)	16		
Min/max admissible temperature (°C)	0,1 / 50		
Indicating range (m ³) ^{[4][6]}	999.999	9.999.999	99.999.999
Verification scale interval (m ³) ^{[5][6]}	0,001		0,01
Orientation	All positions		
Environmental class	C		
Power supply			
Type	mains AC		DC
U _{max}	230 V		24 V
U _{min}	100 V		12 V
Frequency	50 – 60 Hz		-

^[4] The indicating range is programmable, stated here is the minimum indicating range.

^[5] The verification scale interval is programmable, stated here is the maximum value.

^[6] 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.