

OIML Member State
The Netherlands

Number R49-1/2006-NL1-11.02 revision 1
Project number SO13202564
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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 SWB7 + CWB7 Water meter intended for the metering of cold potable water and hot water, model "Sharpflow SWB7 + CWB7", 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 July 2013

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.

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.

Metrological characteristics:

Type	:	Sharpflow SWB7 + CWB7
Min/max admissible temperature (°C)	:	0,1/50
Indicating range (m ³)	:	99.999.999
Orientation	:	All positions
Environmental class	:	C
Power supply	:	Battery 3,6 V
Type U_{battery}	:	
Software versions	:	4.0.4_; 4.0.10_; 4.0.11_; 4.0.12_; 4.2.2_; 4.2.4_; 4.2.5_



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Meter size	DN65	DN80		DN100		DN125	
Minimum flow rate Q1 (m ³ /h)	0,40	0,625	0,64	1,0	1,0	1,56	1,60
Transitional flow rate Q2 (m ³ /h)	0,64	1,00	1,02	1,6	1,6	2,50	2,56
Permanent flow rate Q3 (m ³ /h)	100	100	160	160	250	250	400
Overload flow rate Q4 (m ³ /h)	125	125	200	200	312,5	312,5	500
Ratio Q3/Q1	250	160	250	160	250	160	250
Nominal diameter (mm)	65	80		100		125	
Accuracy Class	1						
Maximum admissible pressure (bar)	16						
Verification scale interval (m ³)	0,0001			0,001			

Meter size	DN150		DN200	DN250	DN300
Minimum flow rate Q1 (m ³ /h)	2,50	2,52	3,94	6,25	10
Transitional flow rate Q2 (m ³ /h)	4,00	4,03	6,30	10	16
Permanent flow rate Q3 (m ³ /h)	400	630	630	1000	1600
Overload flow rate Q4 (m ³ /h)	500	787,5	787,5	1250	2000
Ratio Q3/Q1	160	250	160	160	160
Nominal diameter (mm)	150		200	250	300
Accuracy Class	1				
Maximum admissible pressure (bar)	16			10	
Verification scale interval (m ³)	0,001				0,01



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Meter size	DN25		DN40		DN50		DN65	
Minimum flow rate Q1 (m ³ /h)	0,025	0,040	0,0625	0,100	0,100	0,1575	0,1575	0,250
Transitional flow rate Q2 (m ³ /h)	0,040	0,064	0,100	0,160	0,160	0,252	0,250	0,400
Permanent flow rate Q3 (m ³ /h)	10	16	25	40	40	63	63	100
Overload flow rate Q4 (m ³ /h)	12,5	20	31,3	50	50	78,75	78,75	125
Ratio Q3/Q1	400		400		400		400	
Nominal diameter (mm)	25		40		50		65	
Accuracy Class	2							
Maximum admissible pressure (bar)	16							
Verification scale interval (m ³)	0,00001		0,0001					

Meter size	DN80		DN100		DN125		DN150	
Minimum flow rate Q1 (m ³ /h)	0,25	0,40	0,40	0,625	0,625	1,00	1,00	1,575
Transitional flow rate Q2 (m ³ /h)	0,40	0,64	0,64	1,00	1,00	1,60	1,60	2,52
Permanent flow rate Q3 (m ³ /h)	100	160	160	250	250	400	400	630
Overload flow rate Q4 (m ³ /h)	125	200	200	312,5	312,5	500	500	787,5
Ratio Q3/Q1	400		400		400		400	
Nominal diameter (mm)	80		100		125		150	
Accuracy Class	2							
Maximum admissible pressure (bar)	16							
Verification scale interval (m ³)	0,0001		0,001					



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Meter size	DN200	DN250	DN300
Minimum flow rate Q1 (m ³ /h)	1,575	2,50	4,00
Transitional flow rate Q2 (m ³ /h)	2,52	4,00	6,40
Permanent flow rate Q3 (m ³ /h)	630	1000	1600
Overload flow rate Q4 (m ³ /h)	787,5	1250	2000
Ratio Q3/Q1	400	400	400
Nominal diameter (mm)	200	250	300
Accuracy Class	2		
Maximum admissible pressure (bar)	16	10	
Verification scale interval (m ³)	0,001		0,01

Revision History

This revision replaces the previous version.

Revision	Date	Changes
Initial	22 November 2011	-
1	16 July 2013	New software version and meter sizes added