

## OIML CERTIFICATE OF CONFORMITY

### Issuing authority

Name: NMI Certin B.V.  
Address: Hugo de Grootplein 1  
3314 EG Dordrecht  
The Netherlands

### Applicant

Name: Itron  
Eau et Energie Thermique  
Address: 11 Boulevard Pasteur  
67500 Haguenau  
France

### Manufacturer of the certified type

Name: Itron  
Eau et Energie Thermique  
Address: 11 Boulevard Pasteur  
67500 Haguenau  
France

### Identification of certified type

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.

Further characteristics: see page 3 and further.



**OIML Certificate N° R49-1/2006-NL1-12.02**

Project number SO12200080

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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):  
R49-1/2006 (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 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 Reports:

- 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.

The Issuing Authority NL1  
NMI Certin, 25 January 2013

C. Oosterman  
Head Certification Board

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\* \*

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 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

Meter size	DN65	DN80		DN100		DN125	
Minimum flow rate Q1 (m <sup>3</sup> /h)	0,40	0,625	0,64	1,0	1,0	1,56	1,60
Transitional flow rate Q2 (m <sup>3</sup> /h)	0,64	1,00	1,02	1,6	1,6	2,50	2,56
Permanent flow rate Q3 (m <sup>3</sup> /h)	100	100	160	160	250	250	400
Overload flow rate Q4 (m <sup>3</sup> /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						
Min/max admissible temperature (°C)	0,1/50						
Indicating range (m <sup>3</sup> )	99.999.999						
Verification scale interval (m <sup>3</sup> )	0,0001			0,001			
Orientation	All positions						
Environmental class	C						
Power supply Type U <sub>battery</sub>	Battery 3,6 V						
Software versions	4.0.4 ; 4.0.10 ; 4.0.11 ; 4.0.12 ; 4.2.2						

<b>Meter size</b>	<b>DN150</b>		<b>DN200</b>	<b>DN250</b>	<b>DN300</b>
Minimum flow rate Q1 (m <sup>3</sup> /h)	2,50	2,52	3,94	6,25	10
Transitional flow rate Q2 (m <sup>3</sup> /h)	4,00	4,03	6,30	10	16
Permanent flow rate Q3 (m <sup>3</sup> /h)	400	630	630	1000	1600
Overload flow rate Q4 (m <sup>3</sup> /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	
Min/max admissible temperature (°C)	0,1 / 50				
Indicating range (m <sup>3</sup> )	99.999.999				
Verification scale interval (m <sup>3</sup> )	0,001				0,01
Orientation	All positions				
Environmental class	C				
Power supply Type U <sub>battery</sub>	Battery 3,6 V				
Software versions	4.0.4_ ; 4.0.10_ ; 4.0.11_ ; 4.0.12_ ; 4.2.2_				



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<b>Meter size</b>	<b>DN25</b>		<b>DN40</b>		<b>DN50</b>		<b>DN65</b>	
Minimum flow rate Q1 (m <sup>3</sup> /h)	0,025	0,040	0,0625	0,100	0,100	0,1575	0,1575	0,250
Transitional flow rate Q2 (m <sup>3</sup> /h)	0,040	0,064	0,100	0,160	0,160	0,252	0,250	0,400
Permanent flow rate Q3 (m <sup>3</sup> /h)	10	16	25	40	40	63	63	100
Overload flow rate Q4 (m <sup>3</sup> /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							
Min/max admissible temperature (°C)	0,1/50							
Indicating range (m <sup>3</sup> )	99.999.999							
Verification scale interval (m <sup>3</sup> )	0,00001			0,0001				
Orientation	All positions							
Environmental class	C							
Power supply Type U <sub>battery</sub>	Battery 3,6 V							
Software versions	4.0.4_ ; 4.0.10_ ; 4.0.11_ ; 4.0.12_ ; 4.2.2_							

Meter size	DN80		DN100		DN125		DN150	
Minimum flow rate Q1 (m <sup>3</sup> /h)	0,25	0,40	0,40	0,625	0,625	1,00	1,00	1,575
Transitional flow rate Q2 (m <sup>3</sup> /h)	0,40	0,64	0,64	1,00	1,00	1,60	1,60	2,52
Permanent flow rate Q3 (m <sup>3</sup> /h)	100	160	160	250	250	400	400	630
Overload flow rate Q4 (m <sup>3</sup> /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							
Min/max admissible temperature (°C)	0,1/50							
Indicating range (m <sup>3</sup> )	99.999.999							
Verification scale interval (m <sup>3</sup> )	0,0001		0,001					
Orientation	All positions							
Environmental class	C							
Power supply Type U <sub>battery</sub>	Battery 3,6 V							
Software versions	4.0.4_ ; 4.0.10_ ; 4.0.11_ ; 4.0.12_ ; 4.2.2_							

<b>Meter size</b>	<b>DN200</b>	<b>DN250</b>	<b>DN300</b>
Minimum flow rate Q1 (m <sup>3</sup> /h)	1,575	2,50	4,00
Transitional flow rate Q2 (m <sup>3</sup> /h)	2,52	4,00	6,40
Permanent flow rate Q3 (m <sup>3</sup> /h)	630	1000	1600
Overload flow rate Q4 (m <sup>3</sup> /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	
Min/max admissible temperature (°C)	0,1/50		
Indicating range (m <sup>3</sup> )	99.999.999		
Verification scale interval (m <sup>3</sup> )	0,001		0,01
Orientation	All positions		
Environmental class	C		
Power supply Type U <sub>battery</sub>	Battery 3,6 V		
Software versions	4.0.4_ ; 4.0.10_ ; 4.0.11_ ; 4.0.12_ ; 4.2.2_		