

OIML Member State
The Netherlands

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Project number 2368828
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Issuing authority
Person responsible: NMi Certin B.V.
C. Oosterman

Applicant and
Manufacturer: Schneider electric Systems USA, Inc.
38 Neponset Avenue
Foxborough, MA 02035
United States of America

Identification of the
certified type: An electromagnetic **water meter**
Type: 6500W + IMT656W

Characteristics: See page 2 and further

This OIML Certificate is issued under scheme A

This Certificate attests the conformity of the above-identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 49-1 (2006) "Water meters intended for the metering of cold potable water and hot water"

Accuracy class: 1; 2

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 Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority: **NMi Certin B.V., OIML Issuing Authority NL1**
25 July 2019


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

- R49-1/2006-NL1-09.01 that includes 41 pages and 14 annexes;
- R49-1/2006-NL1-10.01 that includes 40 pages and 3 annexes;
- R49-1/2006-NL1-11.01 that includes 40 pages and 4 annexes;
- R49-1/2006-NL1-12.01 that includes 40 pages and 3 annexes;
- NMI-13200159-01 that includes 6 pages and 1 annex;
- NMI13200159-02 that includes 6 pages and 1 annex;
- NMI-15200645-01 that includes 21 pages and 4 annexes.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

Table 2 gives an overview of the general characteristics of the family of instruments.

The construction of the measuring instrument is recorded in the Documentation folder no. T11652-1.

Table 1 General characteristics

Measuring principle	Electromagnetic	
Accuracy class	1; 2	
Environmental class	C (fixes meters, installed outdoors)	
Electromagnetic environment	E2	
Temperature range ambient	-25 °C / +55 °C	
Water temperature class	T50 (+0,1 °C / +50 °C)	
Maximum admissible pressure (MAP)	1,6 MPa (16 bar) for sizes DN200 and smaller 1,0 MPa (10 bar) for sizes DN250 and larger	
Orientation	All positions (horizontal, vertical or diagonal)	
Flow profile sensitivity class	U0 and D0 (0D upstream and 0D downstream)	
Reverse flow	The sensor is intended to measure reverse flow	
Pressure loss class	Δp 63 (0,63 bar)	
Power supply	<ul style="list-style-type: none"> - Battery 3,6V - External battery pack with output 3,6V - FlexPower 10...30 VDC or 110...230 VAC / 50-60 Hz 	
Software identification / CRC checksum	5.0.1_ / 4CB5 5.0.2_ / 71D5	5.0.3_ / CFF7 5.0.5_ / DCAB

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Table 2 General characteristics of the family of instruments

Meter size	Accuracy class	Flow rates [m ³ /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	
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	
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	
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	
DN200	2	1,575	2,52	630	787,5	400
	1	3,94	6,3	630	787,5	160
	2	2,5	4	1000	1250	400

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Meter size	Accuracy class	Flow rates [m ³ /h]				Ratio Q3/Q1
		Min. Q1	Trans. Q2	Perm. Q3	Over. Q4	
DN250	1	6,25	10	1000	1250	160
DN300	2	4	6,4	1600	2000	400
	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	160

Table 3 General characteristics of the indicating device

Meter size	Indicating range [m ³]	Verification scale interval [m ³]
DN25 – DN50	99.999.999	0,0001
DN65 – DN150	99.999.999	0,001
DN200 – DN450	99.999.999	0,01
DN500; 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