OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R 49/2013-NL1-17.01
Project number 16200168

Issuing authority Person responsible:	NMi Certin B.V. C. Oosterman
Applicant and Manufacturer	Huizhong Instrumentation Co., Ltd. No.126 West Gaoxin Road, High-Tech Industrial Development Zone Tangshan China
Identification of the certified type	A ultrasonic **water meter** Type: SCL-61H
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 Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 49-1 (2013) "Water meters intended for the metering of cold potable water and hot water"

Accuracy class 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**
1 June 2017

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

- No. NMi-16200168-01 dated 1 June 2017 that includes 39 pages;
- No. 161200291 / DN 15 and DN 25 dated 1 June 2017 that includes 78 pages.

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. T10763-1.

Table 1 General characteristics

Measuring principle	Ultrasonic flow metering
Accuracy class	2
Environmental class	M1 / O (installed outdoors)
Electromagnetic environment	E1
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)
Orientation	All positions (Horizontal, vertical or diagonal)
Flow profile sensitivity class	For sizes DN15 and DN20: U5S and D5 (flow straightener + 5 x DN upstream and 5 x DN downstream) For sizes DN25: U10 and D5 (10 x DN upstream and 5 x DN downstream)
Reverse flow	The sensor is not intended to measure reverse flow
Pressure loss class	Δp 40 (0,40 bar) for size DN15 and DN20 Δp 25 (0,25 bar) for size DN25
Power supply	Non-replaceable battery (3,35 – 3,7 V)
Software identification	**Software versions** / **Size** / **Checksum** 01-02 / DN15 / 53285 01-02 / DN20 / 53345 01-02 / DN25 / 53525

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Table 2 General characteristics of the family of instruments

Meter size	Ø in- and outlet [mm]	Flow rates [m³/h]				Ratio Q3/Q1
		Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	
DN15	20	0,00625	0,01	2,5	3,125	400
DN20	22	0,00625	0,01	2,5	3,125	400
DN20	22	0,01	0,016	4	5	400
DN25	25	0,01	0,016	4	5	400
DN25	25	0,01575	0,0252	6,3	7,875	400

Table 3 General characteristics of the indicating device

Meter size	Indicating range [m³]	Verification scale interval [m³]
DN15; DN20	9999	0,00001
DN25	9999	0,0001