

OIML Member State
The Netherlands

Number R 49/2013-NL1-17.02
Project number 1900855
Page 1 of 3

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

Applicant and
Manufacturer Viewshine Metering Ltd.
Building 6, Moganshan Road 1418-41
Hangzhou
China

Identification of the
certified type An ultrasonic **water meter**
Type: U-WR series

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**
11 August 2017



C. Oosterman
Head Certification Board

NMi Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
the Netherlands
T +31 78 6332332
certin@nmi.nl
www.nmi.nl

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



OIML Member State
The Netherlands

Number R 49/2013-NL1-17.02
Project number 1900855
Page 2 of 3

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

- No. NMI-1900855-01 dated 11 August 2017 that includes 35 pages;
- No. 170301928 / DN 15 / Q3 2,5 dated 11 August 2017 that includes 55 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. T11059-1.

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	U0S and D0 (flow straightener + 0 x DN upstream and 0 x DN downstream)
Reverse flow	The sensor is not intended to measure reverse flow
Pressure loss class	Δp 63 (0,63 bar)
Power supply	Non-replaceable battery (3,0 – 3,7 V)
Software identification	Version: V2.2 Checksum: 37244 Displayed on water meter as 22 37244

Table 2 General characteristics of the family of instruments

Meter size	Ø in- and outlet [mm]	Flow rates [m ³ /h]				Ratio Q3/Q1
		Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	
DN15	19	0,00625	0,01	2,5	3,125	400
DN20	24	0,01	0,016	4	5	400



OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R 49/2013-NL1-17.02
Project number 1900855
Page 3 of 3

Table 3 General characteristics of the indicating device

Meter size	Indicating range [m ³]	Verification scale interval [m ³]
DN15; DN20	9999,999	0,000001