

OIML Member State
The Netherlands

Number R 49/2013-B-NL1-18.02
Project number 1900937
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Issuing authority
Person responsible: NMi Certin B.V.
C. Oosterman

Applicant and
Manufacturer Shanghai Kent Instrument Co. Ltd.
Kangfa Road No. 169, Tinglin Town, Jinshan District, Shanghai, China

Identification of the
certified type An electromagnetic **water meter**
Type: KEFD

Characteristics See page 2 and further

This OIML Certificate is issued under scheme B

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**
18 December 2018


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

- No. NMI-1900937-01 dated 18 December 2018 that includes 114 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. T11068-1.

Table 1 General characteristics

Measuring principle	Electromagnetic
Accuracy class	2
Environmental class	M1 / O (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)	1,0 MPa (10 bar)
Orientation	All positions (Horizontal, vertical or diagonal)
Flow profile sensitivity class	U5 and D3 (5 x DN upstream and 3 x DN downstream)
Reverse flow	The sensor is designed to measure reverse flow
Pressure loss class	Δp 40 (0,40 bar)
Power supply	Non-replaceable battery (3,2 – 3,7 V)
Software identification	Version number: 3.85 Checksum: 62536

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	
40	40	0,16	0,25	25	31,25	160
50	50	0,25	0,4	40	50	160
65	65	0,40	0,63	63	78,75	160
80	80	0,63	1	100	125	160



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Meter size	Ø in- and outlet [mm]	Flow rates [m ³ /h]				Ratio Q3/Q1
		Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	
100	100	1	1,6	160	200	160
125	125	1,6	2,5	250	312,5	160
150	150	2,5	4	400	500	160
200	200	4	6,3	630	787,5	160
250	250	6,3	10	1000	1250	160
300	300	10	16	1600	2000	160

Table 3 General characteristics of the indicating device

Meter size	Indicating range [m ³]	Verification scale interval [m ³]
DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250, DN300	99999999,9999	0,0001