

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate No.
R49/2006-DE1-13.01

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name: Physikalisch-Technische Bundesanstalt
Address: Bundesallee 100, 38116 Braunschweig
Person responsible: Dr. Gudrun Wendt

Applicant

Name: Zenner International GmbH & Co. KG
Address: Römerstadt 6
66121 Saarbrücken

Manufacturers

ZENNER International GmbH & Co KG Mittelstraße 42 09619 Mulda GERMANY	ZENNER International GmbH & Co KG Römerstadt 6 66121 Saarbrücken GERMANY
ZENNER do Brasil Instrumentos de Medicao Ltda. Rua Bartolomeu de Gusmao 2.444 Canudos – Novo Hamburgo RS CEP: 93546-000 BRAZIL	ZENNER Coma JVC. Construction Machinery Company 125D Minh Khai, Q Hai Ba Trung Hanoi VIETNAM
ZENNER Aquamet India Pvt Ltd. 39-B, HSIDC Industrial Estate, Sec. 31 Faridabad – 121003 INDIA	ZENNER Meters Ltd. 15 Dongxing Road Songjiang Industrial Zone 201613 Shanghai CHINA

Identification of the certified type

Water meter intended for the metering of cold potable water and hot water
Rotating piston meter with mechanical indicating device 8R MD or 7R MD
Type: RTKD-S

Further characteristics see page 3

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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):

- R 49-1 (Edition 2006) Metrological and technical requirements
- R 49-2 (Edition 2006) Test methods
- R 49-3 (Edition 2006) 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

RTKD-S Q3-1,6 165	that includes 38 pages
RTKD-S Q3-2,5 165	that includes 37 pages
RTKD-S Q3-1,6 105	that includes 47 pages
RTKD-S Q3-2,5 105	that includes 129 pages
RTKD-S Q3-1,6 110 CC	that includes 37 pages
RTKD-S Q3-2,5 110 CC	that includes 38 pages
RTKD-S Q3-2,5 110	that includes 42 pages
RTKD-S Q3-4 190	that includes 42 pages
RTKD-S Q3-4 190 CC	that includes 42 pages
RTKD-S Q3-4 190 MOD	that includes 122 pages

The Issuing Authority

Dr. G. Wendt
Head of Department

17.04.2013

The OIML Member

Dr. R. Schwartz
Head of Division

17.04.2013

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

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Identification of the certified type - page 1 continued

Type details RTKD-S

Q ₃	m ³ /h	1,6	2,5	4
Q ₄	m ³ /h	2,0	3,125	5,0
Q ₂ /Q ₁		1.6		
Body length	mm	≥ 105		≥ 165
Nominal diameter	DN	≥ 15		≥ 20
Connection type		≥G 3/4 B		≥G 1 B
Q ₁ any orientation	ℓ/h	20 / 16 / 12,8 / 10 / 8 / 6,4	50 / 39,7 / 31,3 / 25 / 20 / 15,6 / 12,5 / 10 / 7,9 / 6,3	80 / 63,5 / 50 / 40 / 32 / 25 / 20 / 16 / 12,7 / 10
Q ₂ any orientation	ℓ/h	32 / 25,6 / 20,5 / 16 / 12,8 / 10,2	80 / 63,5 / 50 / 40 / 32 / 25 / 20 / 16 / 12,7 / 10	128 / 101,6 / 80 / 64 / 51,2 / 40 / 32 / 25,6 / 20,3 / 16
Q ₃ /Q ₁		80 / 100 / 125 / 160 / 200 / 250	50 / 63 / 80 / 100 / 125 / 160 / 200 / 250 / 315 / 400	50 / 63 / 80 / 100 / 125 / 160 / 200 / 250 / 315 / 400
Pressure loss class	bar	ΔP 40	ΔP 63	
Minimum scale interval	ℓ	0,02		
Pressure class	bar	MAP 16		
Temperature class		T30 / T50		
Accuracy class		≤ 30°C		> 30°C
		± 2 % (Q ₂ ≤ Q ≤ Q ₄)		± 3 % (Q ₂ ≤ Q ≤ Q ₄)
		± 5 % (Q ₁ ≤ Q < Q ₂)		± 5 % (Q ₁ ≤ Q < Q ₂)
Pressure range		0.3 bar bis 16 bar		
Minimum straight length of inlet / outlet pipe		0 mm / 0 mm		
Environmental class		B, C		
Climatic environment		5°C bis 55°C		
Electromagnetic environment		not applicable		