

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate No.
R49/2006-DE1-12.06

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 4
66121 Saarbrücken

Manufacturers

ZENNER International GmbH & Co KG Mittelstraße 42 09619 Mulda GERMANY	ZENNER International GmbH & Co KG Römerstadt 4 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
Multi jet meter with mechanical indicating device
Type: MTK-S1

Further characteristics see page 3 and 4

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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

MTK-S1 Q3-1,6 165	that includes 64 pages
MTK-S1 Q3-2,5 165	that includes 148 pages
MTK-S1 Q3-1,6 165 CC	that includes 53 pages
MTK-S1 Q3-2,5 165 CC	that includes 53 pages
MTK-S1 Q3-1,6 165 MOD	that includes 53 pages
MTK-S1 Q3-2,5 165 MOD	that includes 53 pages

The Issuing Authority

Dr. G. Wendt
Head of Department

17.10.2012

The OIML Member

Dr. R. Schwartz
Head of Division

17.10.2012

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 MTK-S1

Q ₃	m ³ /h	1,6	2,5
Q ₄	m ³ /h	2,0	3,125
Q ₂ /Q ₁		1.6	
Body length (mm)	mm	≥ 165	
Nominal diameter (DN)	DN	15	
Connection type		≥G 3/4 B	
Indicating device		7R MD or 8R MD	
Q ₁ Orientation H	ℓ/h	64 / 50,8 / 40 / 32 / 25,4 / 20 / 16	100 / 79,4 / 62,5 / 50 / 39,7 / 31,2 / 25 / 20 / 15,6
Q ₂ Orientation H	ℓ/h	102,4 / 81,3 / 64 / 51,2 / 40,6 / 32 / 25,6	160 / 127 / 100 / 80 / 63,5 / 50 / 40 / 32 / 25
Q ₃ /Q ₁ Orientation H		25 / 31,5 / 40 50 / 63 / 80 100	25 / 31,5 / 40 50 / 63 / 80 100 / 125 / 160
Q ₁ Orientation V	ℓ/h	80 / 64	100 / 79,4 / 62,5
Q ₂ Orientation V	ℓ/h	128 / 102,4	160 / 127 / 100
Q ₃ /Q ₁ Orientation V		20 / 25	25 / 31,5 / 40
Minimum scale interval	ℓ	0,02	
Pressure loss class		0,40 bar (0,040 MPa)	0,63 bar (0,063 MPa)
Pressure class		MAP 16	
Pressure range		0,3 bar (0,03 MPa) to 16 bar (1,6 MPa)	
Temperature range		0.1°C < T < 50°C	

		≤ 30°	> 30°C
Accuracy class		± 2 % (Q ₂ ≤ Q ≤ Q ₄)	± 3 % (Q ₂ ≤ Q ≤ Q ₄)
		± 5 % (Q ₁ ≤ Q < Q ₂)	± 5 % (Q ₁ ≤ Q < Q ₂)

Temperature class	T30 / T50
Minimum straight length of inlet / outlet pipe	0 mm / 0 mm
Environmental class	B, C

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Indicating device 8R MD



8R MD basic version



8R MD with modulator plate



8R MD with magnetic pointer



8R MD variation CC



8R MD with pulse output



8R MD with module

Indicating device 7R MD



7R MD basic version



7R MD with modulator plate



7R MD with magnetic pointer



7R MD variation CC