



Member State of OIML
Germany



OIML Certificate No.
R49/2006-DE1-12.02
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

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

Manufacturers

ZENNER International GmbH & Co KG. Talstraße 2 09619 Mulda GERMANY	ZENNER do Brasil Instrumentos de Medição Ltda. Rua Bartolomeu de Gusmão, 2.444 Canudos – Nuovo Hamburgo RS CEP: 93546-000 BRAZIL
ZENNER Aquamet India Pvt Ltd. 39-B, HSIDC Industrial Estate, Sec. 31 Faridabad - 121003 INDIA	ZENNER Meters LTD 15 Dongxing Road Songjiang Industrial Zone Shanghai, 201613 P. R. China
ZENNER Coma JVC Construction Machinery Company 125 D Minh Khai Street Hanoi VIETNAM	ZENNER Han Sein Thant Co. LTD No. 88, 89, 90, Ma Haw Gani Street, Quarter (1), Shwe Pyi Thar Township, Yangon Region, Republic of the Union of Myanmar

Identification of the certified type

Water meter intended for the metering of cold potable water
Multi jet meter with mechanical register
Type: MTK, MTK-S

Further characteristics see page 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 OIML Basic Type Evaluation Reports

MTK Q3-2,5 8R MD CC,	dated	2012-02-02,	that includes	63 pages
MTK Q3-4 8R MD CC,	dated	2012-02-02,	that includes	63 pages
MTK Q3-2,5 5R CC,	dated	2012-02-02,	that includes	77 pages
MTK Q3-4 5R 45,	dated	2012-02-06,	that includes	77 pages
MTK Q3-4 5R CC,	dated	2012-02-02,	that includes	77 pages
MTK-S Q3-2,5 5R 45,	dated	2012-02-06,	that includes	77 pages
MTK-S Q3-2,5 8R MD,	dated	2012-02-02,	that includes	91 pages
MTK-S Q3-4 8R MD,	dated	2012-01-24,	that includes	203 pages

Certificate history

Issue no.	Date	Description of modification
Initial	2012-02-07	----
1	2015-05-12	Additional manufacturers specified



Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

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The Issuing Authority

Dr. M. Rinker
Head of Working Group

12.05.2015

The OIML Member

Dr. R. Schwartz
Vice-President

12.05.2015

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, MTK-S

Q ₃	m ³ /h	2,5		4			
Q ₄	m ³ /h	3,125		5			
Q ₂ /Q ₁	--	1,6					
Orientation	--	H	any	H		any	
Q ₁	m ³ /h	0,025	0,080	0,025	0,400	0,100	0,0127
Q ₂	m ³ /h	0,040	0,127	0,040	0,064	0,160	0,200
Q ₃ /Q ₁	--	100	31,5	160	100	40	31,5
Body length	mm	110 or 165		165 or 190			
Nominal diameter	DN	15		20			
Connection type	--	G ¾ B		G 1 B			

Pressure loss class	0,63 bar
Pressure range	0,3 bar to 16 bar
Temperature range	0,1°C to 50°C
Accuracy class	± 2 % (Q ₂ ≤ Q ≤ Q ₄) Water temperature ≤ 30°C
	± 3 % (Q ₂ ≤ Q ≤ Q ₄) Water temperature > 30°C
	± 5 % (Q ₁ ≤ Q ≤ Q ₂)
Pressure range	0.3 bar to 16 bar
Environmental class:	B, C
Climatic environment	5°C to 55°C
Electromagnetic environment	not applicable (n/a)