

Member State of OIML
Germany



OIML Certificate No.
R49/2006-DE1-15.02

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

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

Manufacturers

ZENNER International GmbH & Co KG Talstraße 2 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.
Single jet meter with mechanical indicating device with 7 or 8 number rollers.
Type: ETKD

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

ETKD Q3-1,6/2,5 8 R MD	that includes 158 pages
ETKD Q3-1,6/2,5 7 R MD 1L	that includes 73 pages
ETKD Q3-1,6/2,5 8 R MD CC	that includes 73 pages
ETKD Q3-1,6/2,5 8 R MD M	that includes 73 pages

The Issuing Authority

Dr. G. Wendt
Head of Department

03.03.2015

The OIML Member

Dr. R. Schwartz
Vice-President

03.03.2015

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.

Identification of the certified type – page 1 continued

Type details

Q ₃	m ³ /h	1,6	2,5
Q ₄	m ³ /h	2,0	3,12
Q ₂ /Q ₁	---	1,6	
Body length	mm	≥ 110	
Nominal diameter	DN	15	
Connection type	---	≥ G ¾ B	
Q ₁ Orientation H	l/h	40 / 32 / 25 / 20 / 16 / 12,8	62 / 50 / 40 / 31 / 25 / 20 / 16 / 12,5
Q ₂ Orientation H	l/h	64 / 51 / 40 / 32 / 25,6 / 20,4	100 / 80 / 64 / 50 / 40 / 32 / 25,6 / 20
Q ₃ /Q ₁ Orientation H	---	40 / 50 / 63 / 80 / 100 / 125	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200
Q ₁ Orientation V	l/h	64 / 50 / 40	100 / 80 / 62 / 50 / 40
Q ₂ Orientation V	l/h	102 / 81 / 64	160 / 127 / 100 / 80 / 63
Q ₃ /Q ₁ Orientation V	---	25 / 31,5 / 40	25 / 31,5 / 40 / 50 / 63
Pressure loss class	bar	Δ25	Δ63
Pressure class	bar	MAP 16	
Temperature class		T30 / T50	
Accuracy class		± 2 % (Q ₂ ≤ Q ≤ Q ₄) für Water temperature ≤ 30°C	
		± 3 % (Q ₂ ≤ Q ≤ Q ₄) für Water temperature > 30°C	
		± 5 % (Q ₁ ≤ Q ≤ Q ₂)	
Pressure range		0.3 bar bis 16 bar	
Environmental class		B, C	
Minimum straight length of inlet / outlet pipe		0mm / 0mm	
Climatic environment		5°C bis 55°C	
Electromagnetic environment		Not applicable	

