

Member State of OIML
Germany



OIML Certificate No.
R49/2013-DE1-16.01

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
GERMANY

Manufacturers:

ZENNER International GmbH & Co. KG Talstraße 2 09619 Mulda GERMANY	ZENNER FUZHOU Water Meters Co. Ltd. Building 14 Juyuanzhou Jinshan Industrial Zone 350008 Fuzhou PR CHINA
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ZENNER do Brasil Instrumentos de Medicao Ltda. Rua Bartololeu de Gusmão 2.444 Canudos – Novo Hamburgo RS CEP: 93546-000 BRAZIL	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
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ZENNER Coma JVC. Construction Machinery Company 125D Minh Khai, Q Hai Ba Trung Hanoi VIETNAM	ZENNER Meters Ltd. 15 Dongxing Road Songjiang Industrial Zone 201613 Shanghai PR CHINA
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ZENNER Aquamet India Pvt Ltd.
39-B, HSIDC Industrial Estate, Sec. 31
Faridabad – 121003
INDIA

Identification of the certified type

Water meter intended for the metering of cold potable water and hot water
Woltman meter with mechanical indicating device.
Type: WPD

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):

R49-1 (2013) Metrological and technical requirements
R49-2 (2013) Test methods
R49-3 (2013) 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

WPD DN50-Y20155075	dated	2016-01-20	that includes	163 pages
WPD DN65-Y20155072	dated	2016-01-20	that includes	44 pages
WPD DN80-Y20155074	dated	2016-01-20	that includes	50 pages
WPD DN100-Y20155077	dated	2016-01-20	that includes	162 pages
WPD DN125-Y20155073	dated	2016-01-20	that includes	44 pages
WPD DN150-Y20155070	dated	2016-01-20	that includes	50 pages

The Issuing Authority

Dr. M. Rinker
Member of Certification Body

22.01.2016

The OIML Member

Dr. R. Schwartz
Vice President

22.01.2016

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: WPD

Q ₃	m ³ /h	25	40	40	63
Q ₄	m ³ /h	31,2	50	50	78
Q ₂ /Q ₁		1,6			
Body length	mm	≥ 200	≥ 200	≥ 200	≥ 200
Nominal diameter	DN	50	50	65	80
Q ₁ Orientation H	m ³ /h	0,62 / 0,50 / 0,39 / 0,31 / 0,25 / 0,20	1,00 / 0,80 / 0,63 / 0,50 / 0,40 / 0,32 / 0,25 / 0,20	1,00 / 0,80 / 0,63 / 0,50 / 0,40 / 0,32 / 0,25 / 0,20	1,57 / 1,26 / 1,00 / 0,78 / 0,63 / 0,50 / 0,39 / 0,31
Q ₂ Orientation H	m ³ /h	1,00 / 0,80 / 0,63 / 0,50 / 0,40 / 0,32	1,60 / 1,28 / 1,00 / 0,80 / 0,64 / 0,51 / 0,40 / 0,32	1,60 / 1,28 / 1,00 / 0,80 / 0,64 / 0,51 / 0,40 / 0,32	2,52 / 2,00 / 1,60 / 1,26 / 1,00 / 0,80 / 0,63 / 0,50
Q ₃ /Q ₁ Orientation H		40 / 50 / 63 / 80 / 100 / 125	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200
Q ₁ Orientation V	m ³ /h	0,625 / 0,5	1,0 / 0,8 / 0,635 / 0,5	1,0 / 0,8 / 0,635 / 0,5	1,57 / 1,26 / 1,0 / 0,788
Q ₂ Orientation V	m ³ /h	1,0 / 0,8	1,6 / 1,28 / 1,016 / 0,8	1,6 / 1,28 / 1,016 / 0,8	2,52 / 2,016 / 1,6 / 1,26
Q ₃ /Q ₁ Orientation V		40 / 50	40 / 50 / 63 / 80	40 / 50 / 63 / 80	40 / 50 / 63 / 80
Pressure loss class	bar	Δ10	Δ25	Δ16	Δ10

Q ₃	m ³ /h	100	100	250
Q ₄	m ³ /h	125	125	400
Q ₂ /Q ₁		1.6		
Body length	mm	≥ 250	≥ 250	≥ 300
Nominal diameter	DN	100	125	150
Q ₁ Orientation H	m ³ /h	2,50 / 2,00 / 1,50 / 1,25 / 1,00 / 0,80 / 0,62 / 0,50 / 0,40 / 0,317	2,50 / 2,00 / 1,50 / 1,25 / 1,00 / 0,80 / 0,62 / 0,50 / 0,40 / 0,317	6,25 / 5,0 / 3,689 / 3,125 / 2,5 / 2,0 / 1,563 / 1,25 / 1,0 / 0,794
Q ₂ Orientation H	m ³ /h	4,00 / 3,20 / 2,54 / 2,00 / 1,60 / 1,20 / 1,00 / 0,80	4,00 / 3,20 / 2,54 / 2,00 / 1,60 / 1,20 / 1,00 / 0,80	10,0 / 8,0 / 6,349 / 5,0 4,0 / 3,2 / 2,5 / 2,0 / 1,6 / 1,27
Q ₃ /Q ₁ Orientation H		40 / 50 / 63 / 80 / 100 / 125 / 160 / 200 / 250 / 315	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200 / 250 / 315	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200 / 250 / 315
Q ₁ Orientation V	m ³ /h	2,5 / 2,0 / 1,587 / 1,25 / 1,0 / 0,8 / 0,625 / 0,5	2,5 / 2,0 / 1,587 / 1,25 / 1,0 / 0,8 / 0,625 / 0,5	6,25 / 5,0 / 3,968 / 3,125 / 2,5 / 2,0 / 1,563 / 1,25
Q ₂ Orientation V	m ³ /h	4,0 / 3,2 / 2,54 / 2,0 / 1,6 / 1,28 / 1,0 / 0,8	4,0 / 3,2 / 2,54 / 2,0 / 1,6 / 1,28 / 1,0 / 0,8	10,0 / 8,0 / 6,349 / 5,0 / 4,0 / 3,2 / 2,5 / 2,0
Q ₃ /Q ₁ Orientation V		40 / 50 / 63 / 80 / 100 / 125 / 160 / 200	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200	40 / 50 / 63 / 80 / 100 / 125 / 160 / 200
Pressure loss class	bar	Δ16	Δ16	Δ10
Pressure class	bar	MAP 16		

Temperature class	T30 / T50
Accuracy class	$\pm 2\%$ ($Q_2 \leq Q \leq Q_4$) for Water temperature $\leq 30^\circ\text{C}$
	$\pm 3\%$ ($Q_2 \leq Q \leq Q_4$) for Water temperature $> 30^\circ\text{C}$
	$\pm 5\%$ ($Q_1 \leq Q \leq Q_2$)
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 to 55°C
Electromagnetic environment	Not applicable

Type WPD



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