

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate No.
R49/2006-DE1-12.05

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
Single jet meter with mechanical register
Type: Minomess A, Minomess B

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

ETK Q3-2,5 V4 110	that includes 41 pages	ETW Q3-2,5 V4 110	that includes 53 pages
ETK Q3-2,5 V3 KU 110	that includes 41 pages	ETW Q3-2,5 V3 KU 110	that includes 53 pages
ETK Q3-4 V4 80	that includes 61 pages	ETW Q3-4 V4 80	that includes 89 pages
ETK Q3-4 V3 115	that includes 61 pages	ETW Q3-4 V3 115	that includes 89 pages
ETK Q3-1,6 V1 110	that includes 40 pages	ETW Q3-1,6 V1 110	that includes 52 pages
ETK Q3-4 V3 CC 115	that includes 53 pages	ETW Q3-4 V3 CC 115	that includes 77 pages
ETK Q3-4 V4 130	that includes 61 pages	ETW Q3-4 V4 130	that includes 89 pages
ETK Q3-4 V3 8R 115	that includes 61 pages	ETW Q3-4 V3 8R 115	that includes 89 pages
ETK Q3-4 V3 KU 130	that includes 61 pages	ETW Q3-4 V3 KU 130	that includes 89 pages
ETK Q3-2,5 V3 110	that includes 161 pages	ETW Q3-2,5 V3 110	that includes 227 pages
ETK Q3-2,5 V4 80	that includes 145 pages	ETW Q3-2,5 V4 80	that includes 245 pages
ETK Q3-2,5 V4 110	that includes 161 pages	ETW Q3-2,5 V4 110	that includes 277 pages
ETK Q3-2,5 V3 80	that includes 145 pages	ETW Q3-2,5 V3 80	that includes 245 pages
ETK Q3-2,5 V3 CC 110	that includes 57 pages	ETW Q3-2,5 V3 CC 110	that includes 85 pages
ETK Q3-2,5 V3 KU 110	that includes 59 pages	ETW Q3-2,5 V3 KU 110	that includes 87 pages

The Issuing Authority

Dr. G.Wendt
Head of Department

06.09.2012

The OIML Member

Dr. R. Schwartz
Head of Division

07.09.2012

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 Minomess A, Minomess B

	Minomess A	
Q ₃ (m ³ /h)	1,6	
Q ₄ (m ³ /h)	2	
Q ₂ /Q ₁	1,6	
Body length (mm)	80	≥110
Nominal diameter (DN)	DN 15	
Indicating device	Variation 1 / Variation 2	
Q ₃ /Q ₁ Orientation H	25 / 31,5 / 40 / 50 / 63 / 80	
Q ₃ /Q ₁ Orientation V	25	
Connection type	G ¾ B M22x1,5 ¹⁾²⁾	G ¾ B G ⅞ B G 1 B ¹⁾ M22x1,5 ¹⁾²⁾

	Minomess A			
Q ₃ (m ³ /h)	2,5			
Q ₄ (m ³ /h)	3,125			
Q ₂ /Q ₁	1,6			
Body length (mm)	80	≥110	80	≥110
Nominal diameter (DN)	DN 15	DN 20	DN 15	
Indicating device	Variation 1 / Variation 2		Variation 3 / Variation 4	
Q ₃ /Q ₁ Orientation H	25 / 31,5 / 40 / 50 / 63 / 80		25 / 31,5 / 40	25 / 31,5 / 40 / 50 / 63 / 80
Q ₃ /Q ₁ Orientation V	25		25 / 31,5 / 40	
Connection type	G ¾ B M22x1,5 ¹⁾²⁾	G 1 B	G ¾ B M22x1,5 ¹⁾²⁾	G ¾ B G ⅞ B G 1 B ¹⁾ M22x1,5 ¹⁾²⁾

1) Alternatively: plug-type connection with O-ring seal

2) Alternatively: G ¾ B and cone with body length 85mm

	Minomess A	
Q ₃ (m ³ /h)	4	
Q ₄ (m ³ /h)	5	
Q ₂ /Q ₁	1,6	
Body length (mm)	80	≥115
Nominal diameter (DN)	DN 20	
Indicating device	Variation 3 / Variation 4	
Q ₃ /Q ₁ Orientation H	25 / 31,5 / 40	25 / 31,5 / 40 / 50 / 63 / 80
Q ₃ /Q ₁ Orientation V	25 / 31,5 / 40	
Connection type	M22x1,5	G 1 B

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	Minomess B			
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)	80	≥110	80	≥110
Nominal diameter (DN)	15		20	
Indicating device	Variation 1 / Variation 2			
Q ₃ /Q ₁ Orientation H	25 / 31,5 / 40 / 50 / 63 / 80			
Q ₃ /Q ₁ Orientation V	25			
Connection type	G ¾ B	G ¾ B RP ½ B RP ¾ B	G ¾ B	G 1 B RP ¾ B

Temperature range	0,1 °C bis 30 °C	30 °C bis 90 °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 classes	T30 / T50 / T70 / T90	
Pressure range	0,3 bar (0,03 MPa) to 16 bar (1,6 MPa)	
Pressure loss class	0,63 bar (0,063 MPa)	
Environmental class	B, C	

Indicating device
Variation 1



Indicating device
Variation 2



Indicating device
Variation 3



Indicating device
Variation 4

