Braunschweig und Berlin

Member State of OIML Germany



OIML Certificate No. R49/2006-DE1-13.02

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name: Physikalisch-Technische Bundesanstalt Address: Bundesallee 100, 38116 Braunschweig

Person responsible: Dr. Gudrun Wendt

Applicant

Name: Hydrometer GmbH

Address: Industriestraße 13, 91522 Ansbach

GERMANY

Manufacturer of the certified type is the applicant.

Identification of the certified type

Water meter with mechanical indicating device or electronic indicating

device

Type: WESAN WP, WESAN WP E

Further characteristics see page 3

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.

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The conformity was established by the results of tests and examinations provided in the associated Test Report

that includes 150 pages No. PTB-1.5-4065542

The Issuing Authority

The CIML Member

Dr. R. Schwartz

Head of Division

Dr. G. Wendt **Head of Department**

05.12.2013 05.12.2013

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 WESAN WP, WESAN WP E

Nominal diameter DN 50 (R 50, R 63) for orientation H and tilted sideways

Flow range:

Q ₁ [m ³ /h]	0,8	0,63	
Q ₂ [m ³ /h]	1,28	1,02	
Q ₃ [m ³ /h]	40	40	
Q ₄ [m ³ /h]	50	50	
Q_2/Q_1	1,6		
Q ₃ /Q ₁	50	63	

Nominal diameter DN 65 (R 50, R 63, R80, R100, R125) for orientation H

Flow range:

Q ₁ [m ³ /h]	1,26	1	0,79	0,63	0,5
Q ₂ [m ³ /h]	2,02	1,6	1,26	1,01	0,81
Q ₃ [m ³ /h]	63	63	63	63	63
Q ₄ [m ³ /h]	78,75	78,75	78,75	78,75	78,75
Q ₂ /Q ₁	1,6				
Q ₃ /Q ₁	50	63	80	100	125

Nominal diameter DN 65 (R 50, R 63) for orientation H and tilted sideways

Flow range:

Q ₁ [m ³ /h]	1,26	1	0,79
Q ₂ [m ³ /h]	2,02	1,6	1,26
Q ₃ [m ³ /h]	63	63	63
Q ₄ [m ³ /h]	78,75	78,75	78,75
Q_2/Q_1	1,6		
Q ₃ /Q ₁	50	63	80

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Accuracy class, orientation, temperature range and environmental conditions

Accuracy class	≤ 30°C	> 30° C
	$\pm 2 \% (Q_2 \le Q \le Q_4)$	$\pm 3 \% (Q_2 \le Q \le Q_4)$
	$\pm 5 \% (Q_1 \le Q \le Q_2)$	$\pm 5 \% (Q_1 \le Q \le Q_2)$
Orientation	H and tilted sideways	
Water temperature range	0,1°C to 50°C	
Minimum straight length of inlet / out-let pipe	0 mm / 0mm	
Environmental conditions	Class B	

Pressure range and pressure loss

Nominal diameter	P _{min}	P _{max}	ΔΡ
DN 50		Pa) 16 bar (1,6 MPa)	∆P 25
DN 65	0,3 bar (0,03MPa)		ΔP 16