

Physikalisch-Technische Bundesanstalt Braunschweig und Berlin Nationales Metrologieinstitut

Member State of OIML Germany



OIML Certificate No. R49/2006-DE1-15.03

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

Name:	Sensus GmbH Ludwigshafen		
Address:	Industriestr. 16, 67063 Ludwigshafen am Rhein		

Manufacturer of the certified type is the applicant.

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 Reports

No. PTB-1.5-4076673(1) No. PTB-1.5-4076673(2) No. PTB-1.5-4076673(3) that includes 53 pages that includes 66 pages that includes 75 pages

The Issuing Authority

The CIML Member

Dr. M. Rinker Member of Certification Body Dr. R. Schwartz Vice President

09.09.2015

09.09.2015

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

Permanent flowrate		2,5 m³/h	4 m³/h	6,3 m³/h	10 m³/h	16 m³/h		
	\sim	0,003 m ³ /h	0,005 m³/h	0,008 m ³ /h	0,013 m ³ /h	0,020 m ³ /h		
	Q_1			,				
	Q ₂	0.005 m³/h	0,008 m³/h	0,013 m³/h	0,020 m³/h	0,032 m³/h		
	Q_3	2,5 m³/h	4 m³/h	6,3 m³/h	10 m³/h	16 m³/h		
	Q_4	3,125 m³/h	5 m³/h	7,875 m³/h	12,5 m³/h	20 m³/h		
Q ₂ /	Q ₁	1,6						
Q ₃ /	Q ₁	800 ¹⁾						
Max. permissible error:		$\pm 2 \% (Q_2 \le Q \le Q_4)$ for water temperature $\le 30^{\circ}C$						
		$\pm 3 \% (Q_2 \le Q \le Q_4)$ for water temperature > 30°C						
		$\pm 5\% (Q_1 \le Q < Q_2)$						
Water temperature range	e:	0,1 °C to 70 °C						
Working pressure range		0,3 bar (0,03 MPa) to 16 bar (1,6 MPa)						
Pressure loss class ΔP :		0,40 bar (0,04 MPa)						
Orientation limitations:		All orientation						
Environmental class:								
Mechanical		M2						
Environmental:								
Climatic Environmental:		-15°C bis 70°C						
Electromagnetic		E2						
Ennvironmental:								
Connection size		DN15	DN20	DN25	DN32	DN40		
Threaded end connectio	n:	≥ G¾B	≥ G1B	≥ G1¼B	≥ G1½B	≥ G2B ²⁾		
Meter length:		≥ 110mm	≥ 105 mm	≥ 198 mm	≥ 260 mm	≥ 300 mm		

¹⁾ The meter is also allowed to be manufactured for the flow rates $Q_3 / Q_1 = R = 630, 500, 400, 315, 250, 200, 160, 125, 100, 80, 63,5, 50, 40.$ ²⁾ The meter can be performed alternatively with flanges according to DIN EN1092-1

and DIN 2501-1