



Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

OIML Member State
Germany

OIML Certificate No.
R49/2013-A-DE1-24.01

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: Physikalisch-Technische Bundesanstalt,
Conformity Assessment Body
Address: Bundesallee 100, 38116 Braunschweig, GERMANY
Person responsible: Dr.-Ing. Prof. h. c. Frank Härtig

Applicant

Name: Diehl Metering GmbH
Address: Industriestr. 13, 91522 Ansbach

Manufacturer

Name: Diehl Metering GmbH
Address: Industriestr. 13, 91522 Ansbach

Identification of the certified type *(the detailed characteristics will be defined in the additional pages)*

Water meter
Type: WESAN WP G

Designation of the module *(if applicable)*

Mechanical (Woltman) turbine water meter

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R49

Edition (year): 2013

For accuracy class (if applicable): 2

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML 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 OIML type evaluation report:

No. PTB-1.5-4118268 dated 13.02.2024 that includes 26 pages.

The technical documentation relating to the identified type is contained in documentation file:

No. ZDS-R49/2013-A-DE1-24.01 dated 13.02.2024 that includes 2 pages

OIML Certificate History

Revision No.	Date	Description of the modification
R49/2013-A-DE1-24.01	13.02.2024	Initial certificate

Identification, signature and stamp

The Issuing Authority



Dr. Tobias Nickschick

Member of Conformity Assessment Body

Date: 13.02.2024

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 OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

Annex I: Technical specifications

General characteristics:

Temperature class:	T30 (0.1 °C ... 30 °C) and T50 (0.1 °C ... 50 °C)						
Environmental class:	O / M1						
Electromagnetic class:	---						
Maximum admissible pressure (MAP):	1,6 MPa (16 bar)						
Maximum admissible temperature:	50 °C						
Accuracy class	2						
Sensitivity class:	U0 / D0						
Orientation / Mounting:	H / V						
Reverse flow:	The water meter is not designed to measure reverse flow.						
Pressure loss class:	Nominal diameter in mm:						
	50	65	80	100	125	150	200
	Δp_{25}	Δp_{25}	Δp_{25}	Δp_{40}	Δp_{40}	Δp_{10}	Δp_{10}

Nominal diameter mm	Q ₁ m ³ /h	Q ₂ m ³ /h	Q ₃ m ³ /h	Q ₄ m ³ /h	Ratio Q ₃ /Q ₁
50	0,635	1,016	40	50	63
65	0,635	1,016	40	50	63
80	1	1,6	100	125	100
100	1,6	2,56	160	200	100
125	1,6	2,56	160	200	100
150	5	8	250	312,5	50
200	5	8	250	312,5	50

Note: The values given in this table for Q₃ and the ratio Q₃/Q₁ are maximum values, respectively. The value given for Q₁ is a minimum value. The evaluation is valid for water meters with lower Q₃ values and higher Q₁ values if the requirements of point 4.1 of OIML R 49-1:2013 are met.