OIML Member State Germany	**OIML Certificate No.** **R49/2013-A-DE1-24.03**

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

Manufacturer

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

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

Water Meter
Type: iPERL

Designation of the module *(if applicable)*

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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 R 49 Edition (year): 2013

For accuracy class (if applicable): 2

OIML Certificate No.
R49/2013-A-DE1-24.03

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-1.5-4123742 dated 22.10.2025 that includes 25 pages.

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

No. ZDS-R49/2013-A-DE1-24.03 dated 22.10.2025 that includes 3 pages.

OIML Certificate History

Revision No.	Date	Description of the modification
R49/2013-A-DE1-24.03	22.10.2025	Initial certificate

Identification, signature and stamp

The Issuing Authority

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 53

Dr. Tobias Nickschick

Member of Conformity Assessment Body

Date: 22.10.2025

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) T50 (0.1 °C … 50 °C) T70 (0.1 °C … 70 °C)
Environmental class:	M (mobile meters) M2, E2
Maximum admissible pressure (MAP):	1.6 MPa (16 bar)
Accuracy class	2
Sensitivity class:	U0 / D0
Orientation / Mounting:	Any
Reverse flow:	The water meter is designed to measure reverse flow.
Pressure loss class:	Δp 40

Measurement characteristics:

Nominal diameter mm	**Q_1 m³/h**	**Q_2 m³/h**	**Q_3 m³/h**	**Q_4 m³/h**	**Ratio Q_3/Q_1**
15	0.003125	0.005	2.5	3.125	800
20	0.005	0.008	4	5	800
25	0.007875	0.0126	6.3	7.875	800
32	0.0125	0.02	10	12.5	800
40	0.02	0.032	16	20	800

Note: The values given in this table for Q_3 and the ratio Q_3/Q_1 are maximum values, respectively. The value given for Q_1 is the minimum value. The evaluation is valid for water meters with lower Q_3 values and higher Q_1 values if the requirements of point 4.1 of OIML R 49-1:2013 are met.