

**OIML Member State**  
The Netherlands

Number R137/2012-A-NL1-24.03 revision 0  
Project number 3789034  
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Issuing authority NMI Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Vemm tec Messtechnik GmbH  
Gartenstrasse 20  
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Germany

Identification of the certified type **A Rotary displacement gas meter**  
Type: OMEGA 8

Characteristics See following page(s)

This OIML Certificate is issued under scheme A.

This 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):

**R 137-1:2012 "Gas meters"**

Accuracy class 1,0

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**  
7 May 2024

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMI-12200167-01 dated 2 November 2012 that includes 49 pages;
- No. NMI-12200167-02 dated 29 January 2013 that includes 56 pages;
- No. NMI-SO14204809-01 dated 7 April 2015 that includes 34 pages;
- No. NMI-2356380-02 dated 27 May 2022 that includes 16 pages;
- No. NMI-3531005-02 dated 20 April 2023 that includes 12 pages.

### Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

In Table 2 the characteristics of the family of instruments are presented.

The construction of the measuring instrument is recorded in the Documentation folder no. T12807-1.

**Table 1 General characteristics**

Maximum pressure	16 bar(g)
Mechanical class	M1
Electromagnetic Class	Not applicable (the gas meter has no electronics)
Ambient temperature range	-25 – +55 °C; condensing humidity
Gas temperature range	-25 – +55 °C
Orientation	All orientations
Designed for humidity conditions	Not applicable (the gas meter has no electronics)
Intended for the measurement of	Gas volume
Flow direction	Uni-directional (indicated with arrow)

Flow rate range:

The flow rate range shall fulfill the following conditions:

$Q_{max} / Q_{min}$	$Q_{max} / Q_t$
$\geq 50$	$\geq 10$
$\geq 5$ and $\leq 50$	$\geq 5$

**Table 2 Essential characteristics of the family of instruments**

Nominal diameter	Type	Cyclic volume	Q <sub>max</sub>	Q <sub>t</sub>	Q <sub>min</sub>
[mm]		[dm <sup>3</sup> ]	[m <sup>3</sup> /h]	[m <sup>3</sup> /h]	[m <sup>3</sup> /h]
25	G10	0,177	16	1,6	0,4
50	G16	0,210	25	2,5	0,5
	G25	0,283	40	2,0	0,5
	G40	0,566	65	3,25	0,4
	G65	0,708	100	5,0	0,5
80	G100	1,05	160	8,0	0,65
	G160-3	2,78	250	12,5	1,6
100	G160-4"	2,78	250	12,5	1,6
	G250	4,20	400	20,0	2,0
	G400-4"	5,66	650	32,5	3,2
150	G400-6"	10,5	650	32,5	4,0
	G650	15,7	1000	50,0	10,0
200	G1000	19,9	1600	80,0	16,0

**Table 3 Verification scale interval**

Type	Number of drums		Control element
	Before the comma	Behind the comma	[m <sup>3</sup> ]
G10 – G25	6	2	0,002
G40 – G400	7	1	0,02
G650 – G1000	8	0	0,2

**Installation conditions:**

For this rotary gas meter, no specific installation conditions are applicable.



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## Certificate history:

Revision	Date	Description of the modification
Initial	07-05-2024	Initial issue