

Issuing authority NMI Certin B.V.
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Applicant and Manufacturer ZENNER Metering Technology (Shanghai) Ltd.
NO.6558, East Yinggang Road
Qingpu Industrial Zone
Shanghai
P.R. China

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

Characteristics See page 2 and further

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.

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Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
20 January 2023

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-2238753-02 dated 28 February 2022 that includes 29 pages.
- No. NMI-3506247-02 dated 20 January 2023 that includes 12 pages.

Characteristics of the measuring instrument

In Table 1, the general characteristics of the measuring instrument are presented. Tables 2 and 3 gives an overview of the general characteristics of the family of instruments.

Table 1 General characteristics

Destined for the measurement of	Gas volume
Environmental classes	M1/E1
Accuracy class	1,0
Maximum pressure	16 bar(g)
Ambient temperature range	-25 ... +55 °C
Gas temperature range	-25 ... +55 °C
Designed for	Non-condensing humidity / condensing humidity
Orientation	Horizontal, vertical up and vertical down all orientations
Flow direction	Uni-directional (indicated with arrow)
Lubrication	Aeroshell Fluid 10

Table 2 Essential characteristics of the family of instruments

Nominal diameter [mm]	Type	Cyclic volume [dm ³]	Q _{min} [m ³ /h]	Q _t [m ³ /h]	Q _{max} [m ³ /h]
25	G10	0,22	0,4	1,6	16
25	G16		0,4	2,5	25
40	G16		0,4	2,5	25
40	G25		0,4	4	40
50	G25	0,70	0,65	4	40
50	G40		0,65	6,5	65
50	G65		0,65	10	100
80	G65	1,11	0,65	10	100
80	G100		0,65	16	160
80	G160	2,06	1,6	25	250
100	G160	2,55	1,6	25	250
100	G250	3,97	2,5	40	400
100	G400		2,5	65	650
150	G400	10,83	4	65	650
150	G650	13,38	6,5	100	1000
200	G1000	17,45	10	160	1600

Table 3 Verification scale interval

Type	Number of drums		Control element [m ³]
	Before the comma	Behind the comma	
G10 – G100	6	2	0,002
G160 – G1000	7	1	0,02

Installation conditions:

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



OIML Member State
The Netherlands

OIML Certificate

Number R137/2012-A-NL1-22.02 revision 1
Project number 3506247
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History file

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	1 March 2022	Initial issue
1	20 January 2023	Additional testing, lower Qmin