

**OIML Member State**  
The Netherlands

Issuing authority

NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

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.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was 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.

Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**  
1 March 2022

Certification Board

**NMi Certin B.V.**  
Thijssseweg 11  
2629 JA Delft  
The Netherlands  
T +31 88 636 2332  
[certin@nmi.nl](mailto:certin@nmi.nl)  
[www.nmi.nl](http://www.nmi.nl)

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)

Reproduction of the complete document only is permitted.

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.



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.

### 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
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 <sup>3</sup> ]	Q <sub>min</sub> [m <sup>3</sup> /h]	Q <sub>t</sub> [m <sup>3</sup> /h]	Q <sub>max</sub> [m <sup>3</sup> /h]
25	G10	0,22	0,4	2,5	16
25	G16		0,4	2,5	25
40	G16		0,4	2,5	25
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

**Table 3 Verification scale interval**

Type	Number of drums		Control element [m <sup>3</sup> ]
	Before the comma	Behind the comma	
G10 – G100	6	2	0,002
G160 – G400	7	1	0,02

**Installation conditions:**

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