

OIML Member State
The Netherlands

Number R137/2012-A-NL1-23.02 revision 0
Project number 3531005
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Issuing authority NMI Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Tancy Instrument Group Co., Ltd.
No. 198, Hualian Road, Cangnan Industrial Zone
Wenzhou City, Zhejiang Province
P.R. China

Identification of the certified type **A rotary displacement gas meter**
Type: TYL

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.

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**
20 April 2023

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- 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. T10487-4.

Table 1 General characteristics

Destined for the measurement of	Gas volume
Mechanical class	M1
Electromagnetic Class	Not applicable (the gas meter has no electronics)
Accuracy class	1.0
Maximum pressure	16 bar(g)
Ambient temperature range	-25 ... +55 °C
Gas temperature range	-25 ... +55 °C
Designed for humidity conditions	Not applicable (the gas meter has no electronics)
Orientation	Horizontal, vertical up and vertical down (all orientations)
Flow direction	Uni-directional (indicated with arrow)
Power supply voltage	Not applicable
Software identification	Not applicable

Flow rate range:

The flow rate range shall fulfill the following conditions:

Q_{max} / Q_{min}	Q_{max} / Q_t
≥ 50	≥ 10
≥ 5 and ≤ 50	≥ 5

Table 2 Essential characteristics of the family of instruments

Nominal diameter	Type	Cyclic volume	Q _{max}	Q _t	Q _{min}
[mm]		[dm ³]	[m ³ /h]	[m ³ /h]	[m ³ /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 ³]
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.

Certificate history:

Revision	Date	Description of the modification
Initial	20-04-2023	Scheme B to Scheme A.