

OIML Member State
The Netherlands

Number R137/2012-NL1-15.07
Project number SO15201673
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and manufacturer	Tancy Instrument Group Co. Ltd. No.3468, Tongfu Rd. Lingxi town, Wenzhou city 235800 Cangnan county, Zhejiang province China
Identification of the certified type	A rotary displacement gas meter Type: TYL
Characteristics	See page 2 and 3

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**
23 November 2015



C. Oosterman
Head Certification Board

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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

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see www.nmi.nl).





OIML Certificate of Conformity

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Report:

- No. NMI-SO14204809-01 dated 7 April 2015 that includes 34 pages.

Characteristics of the gas meter:

Table 1 gives the general characteristics of the meter type. Table 2 and 3 specify in detail the essential characteristics and verification scale interval. The construction of the measuring instrument is recorded in the Documentation folder no. T10487-2.

Destined for the measurement of	Gas volume
Mechanical class	M1
Electromagnetic class	Not applicable (the meter has no electronics)
Ambient temperature range	-25 °C / +55 °C
Gas temperature range	-25 °C / +55 °C
Designed for humidity conditions	Not applicable (the 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

Table 2: Essential characteristics					
Nominal diameter	Type	Cyclic volume	Qmax	Qt	Qmin
[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	0,5
	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	6,5
	G650	15,7	1000	50,0	10,0
200	G1000	19,7	1600	80,0	16,0

Remarks regarding table 2:

1. The overload flow rate (Q_o) for all rotary meters is equal to $1,2 \cdot Q_{max}$.
2. The working pressure range for all rotary displacement gas meters is atmospheric up to and including 16 bar(g).

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 meter are no specific installation conditions applicable.