

OIML Member State
The Netherlands

Number R137/2012-NL1-17.02
Project number SO16200998
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Issuing authority: NMI Certin B.V.
Person responsible: C. Oosterman

Applicant and manufacturer: ELGAS, s.r.o.
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Czech Republic

Identification of the certified type: **A rotary piston gas meter**
Type: EMR and EMR-Dual

Characteristics: See page 2 and further

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: See table 2 and 3.

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**
23 June 2017



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OIML Certificate of Conformity

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

- No. NMI-14200712-02 dated 30 January 2015 that includes 36 pages.

Characteristics of the measuring instrument

Table 1 gives the general characteristics of both meter types. Table 2, 3 and 4 on the following pages specify in detail the characteristics and essential parts of the EMR and EMR-Dual rotary piston gas meters. The construction of the measuring instrument is recorded in the Documentation folder no. T10774-1.

Table 1 General characteristics EMR and EMR-Dual

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
Orientation	Horizontal / Vertical up / Vertical down (all orientations)
Flow direction	Uni-directional (indicated with arrow)

Table 2 Essential characteristics EMR

Volume* V [dm ³]	G-value	Q _{max} [m ³ /h]	Minimum Q _{min} [m ³ /h]	Q _t [m ³ /h]	Maximum P _{max} [bar]	Diameter D [mm]	Accuracy class
0,25	G6	10	0,25	0,5	101	Threaded	1,0
	G10	16	0,25	0,8	101	Threaded	1,0
	G16	25	0,25	1,25	101	Threaded	1,0
	G25	40	0,25	2	101	Threaded	1,0 or 1,5
0,39	G10	16	0,25	0,8	101	40 or 50	1,0
	G16	25	0,25	1,25	101	40 or 50	1,0
	G25	40	0,25	2	101	40 or 50	1,0 or 1,5
	G40	65	0,25	3,2	101	40 or 50	1,0 or 1,5
0,61	G16	25	0,25	1,25	101	40 or 50	1,0
	G25	40	0,25	2	101	40 or 50	1,0 or 1,5
	G40	65	0,25	3,2	101	40 or 50	1,0 or 1,5
	G65	100	0,25	5	101	40 or 50	1,0 or 1,5
0,73	G16	25	0,2	1,25	101	40 or 50	1,0
	G25	40	0,2	2	101	40 or 50	1,0 or 1,5
	G40	65	0,2	3,2	101	40 or 50	1,0 or 1,5
	G65	100	0,2	5	101	40 or 50	1,0 or 1,5
	G100	160	0,4	8	12	50 or 80	1,0 or 1,5
1,16	G40	65	0,4	3,2	101	50 or 80	1,0 or 1,5
	G65	100	0,4	5	101	50 or 80	1,0 or 1,5
	G100	160	0,4	8	101	50 or 80	1,0 or 1,5
	G160	250	0,65	12,5	12	50 or 80	1,0 or 1,5
1,45	G65	100	0,6	5	101	80 or 100	1,0 or 1,5
	G100	160	0,6	8	101	80 or 100	1,0 or 1,5
	G160	250	0,6	12,5	101	80 or 100	1,0 or 1,5
1,81	G65	100	0,6	5	101	80 or 100	1,0 or 1,5
	G100	160	0,6	8	101	80 or 100	1,0 or 1,5
	G160	250	0,6	12,5	101	80 or 100	1,0 or 1,5
	G250	400	1	20	12	80 or 100	1,0 or 1,5
1,98	G100	160	1	8	101	80 or 100	1,0 or 1,5
	G160	250	1	12,5	101	80 or 100	1,0 or 1,5
	G250	400	2,5	20	12	80 or 100	1,0 or 1,5
3,17	G160	250	1,6	12,5	101	80 or 100	1,0 or 1,5
	G250	400	1,6	20	101	80 or 100	1,0 or 1,5
	G400	650	2,5	32	12	80 or 100	1,0 or 1,5
5,15	G250	400	2,5	20	101	100 or 150	1,0 or 1,5
	G400	650	2,5	32	101	100 or 150	1,0 or 1,5
	G650	1000	6,25	50	12	100 or 150	1,0 or 1,5

* See remark on next page.

Table 3 Essential characteristics EMR-Dual

Volume* V [dm ³]	G-value	Q _{max} [m ³ /h]	minimum Q _{min} [m ³ /h]	Qt [m ³ /h]	maximum p _{max} [bar]**	Diameter D [mm]	Accuracy class
2,41	160	250	1	12,5	21 / 101	80 or 100	1,0 or 1,5
	250	400	2,5	20	21 / 101	80 or 100	1,0 or 1,5
3,96	250	400	2,5	20	21 / 101	100 or 150	1,0 or 1,5
	400	650	4	32	21 / 101	100 or 150	1,0 or 1,5
	650	1000	4	32	21 / 101	150 or 200	1,0 or 1,5
6,34	400	650	4	32	21 / 101	150 or 200	1,0 or 1,5
	650	1000	6,5	50	21 / 101	150 or 200	1,0 or 1,5

- * On the name plate of the rotary meter the cyclic volume can be given in two possible formats:
1. with two digits behind the comma as stated in table 2 and 3, or
 2. with a number containing 6 significant digits. In this case a HF pulse value can be accurately derived from the spinning rotors with an optical sensor.

** The EMR-Dual can be delivered as a low pressure (P_{max} = 21 bar) or a high pressure (P_{max} = 101 bar) variant.

Table 4 Register built up

meter size	Minimum number of drums		control-element [m ³]
	before the comma	behind the comma	
G6	5	3	0,0002
G10 – G65	6	2	0,002
G100 – G650	7	1	0,02

Installation conditions

For this rotary meter specific installation conditions are not applicable.