



OIML Certificate

OIML Member State
The Netherlands

Number R137/2012-A-NL1-25.03 revision 0
Project number 3972617
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Issuing authority NMI Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Flow Meter Group B.V.
Innovatieweg 32
7007 CD Doetinchem
The Netherlands

Identification of the certified type A **turbine gas meter**
Type: FMT-L, FMT-S, FMT-Lx and FMT-Dc

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**
18 July 2025

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

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.





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

- No. NMI-14200104-01 dated 15 September 2014 that includes 14 pages;
- No. NMI-14200702-01 dated 18 December 2014 that includes 13 pages;
- No. NMI-14200712-01 dated 23 December 2014 that includes 35 pages;
- No. VSL-3255499-01 dated 28 January 2015 that includes 6 pages;
- No. NMI-1901860-02 dated 26 April 2018 that includes 4 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. T10466-7.

Table 1 General characteristics

Destined for the measurement of	Gas volume
Mechanical class	M1
Electromagnetic class	Not applicable (the meter has no electronics)
Ambient temperature range	-40 °C / +70 °C
Gas temperature range	-40 °C / +70 °C
Orientation	Horizontal / Vertical up / Vertical down (all orientations)
Flow direction	Uni-directional (indicated with arrow)

Table 2 General characteristics of the family of instruments

Table 1																
Main characteristics				1.2 Essential characteristics					1.4 Conditional parts		1.1 Essential parts					
Type	DN body	DN cartr.	G- value	Qmax	Qt	Qmin			Number of drums	Control element	Blade angle	Blade qty	Bearing dimensions Inside diameter x Outside diameter x Width in mm			
						MR 1:20	MR 1:30	MR 1:50					standard bearings		Optional bearings	
						0..101 bar(g)	3..101 bar(g)	8..101 bar(g)	Before and after comma				0..101 bar(g)		3...101 bar(g)	
-	mm	mm	-	m³/h	m³/h	m³/h	m³/h	m³/h	-	m³/h	degree	-	front	rear	front	rear
FMT-Lx or FMT-Dc	50	80	100	160	32	8	5	3	7 / 1	0,02	55	12	3x6x3	2x5x2	3x8x4	3x6x3
			160	250	50	12,5	8	5			45	14				
			250	400	80	20	12,5	8			35	16				
FMT-L, FMT-S, FMT-Lx or FMT-Dc	80	80	100	160	32	8	5	3	7 / 1	0,02	55	12	3x6x3	2x5x2	3x8x4	3x6x3
			160	250	50	12,5	8	5			45	14				
			250	400	80	20	12,5	8			35	16				
FMT-Lx or FMT-Dc	80	100	160	250	50	12,5	8	5	7 / 1	0,02	55	12	3x8x4	3x6x3	5x10x3	3x6x3
			250	400	80	20	12,5	8			45	14				
			400	650	130	32,5	20	12,5			35	16				
FMT-Lx or FMT-Dc	100	80	100	160	32	8	5	3	7 / 1	0,02	55	12	3x6x3	2x5x2	3x8x4	3x6x3
			160	250	50	12,5	8	5			45	14				
			250	400	80	20	12,5	8			35	16				
FMT-L, FMT-S, FMT-Lx or FMT-Dc	100	100	160	250	50	12,5	8	5	7 / 1	0,02	55	12	3x8x4	3x6x3	5x10x3	3x6x3
			250	400	80	20	12,5	8			45	14				
			400	650	130	32,5	20	12,5			35	16				
FMT-Lx or FMT-Dc	100	150	400	650	130	32,5	20	12,5	7 / 1	0,02	55	12	5x11x5	5x11x5	5x16x5	5x11x5
			650	1000	200	50	32	20			45	14				
			1000	1600	320	80	50	32			35	16				
FMT-Lx or FMT-Dc	150	100	160	250	50	12,5	8	5	7 / 1	0,02	55	12	3x8x4	3x6x3	5x10x3	3x6x3
			250	400	80	20	12,5	8			45	14				
			400	650	130	32,5	20	12,5			35	16				
FMT-L, FMT-S, FMT-Lx or FMT-Dc	150	150	400	650	130	32,5	20	12,5	7 / 1	0,02	55	12	5x11x5	5x11x5	5x16x5	5x11x5
			650	1000	200	50	32	20			45	14				
			1000	1600	320	80	50	32			35	16				
FMT-Lx or FMT-Dc	150	200	650	1000	200	50	32	20	7 / 1	0,02	55	12	5x16x5	5x16x5	8x22x7	5x16x5
			1000	1600	320	80	50	32			45	14				
			1600	2500	500	125	80	50			35	16				
FMT-Lx or FMT-Dc	200	150	400	650	130	32,5	20	12,5	7 / 1	0,02	55	12	5x11x5	5x11x5	5x16x5	5x11x5
			650	1000	200	50	32	20			45	14				
			1000	1600	320	80	50	32			35	16				
FMT-L, FMT-S, FMT-Lx or FMT-Dc	200	200	650	1000	200	50	32	20	7 / 1	0,02	55	12	5x16x5	5x16x5	8x22x7	5x16x5
			1000	1600	320	80	50	32			45	14				
			1600	2500	500	125	80	50			35	16				
FMT-Lx or FMT-Dc	250	200	650	1000	200	50	32	20	7 / 1	0,02	55	12	5x16x5	5x16x5	8x22x7	5x16x5
			1000	1600	320	80	50	32			45	14				
			1600	2500	500	125	80	50			35	16				

Main characteristics				1.2 Essential characteristics				1.4 Conditional parts		1.1 Essential parts					
Type	DN body	DN cartr.	G- value	Qmax	Qt	Qmin		Number of drums	Control element	Blade angle	Blade qty	Bearing dimensions Inside diameter x Outside diameter x Width in mm			
						0..101 bar(g)	4..101 bar(g)					0..101 bar(g)			
						MR 1:30	MR 1:50					standard bearings		Optional bearings	
-	mm	mm	-	m³/h	m³/h	m³/h	m³/h	-	m³/h	degree	-	front	rear	front	rear
FMT-Lx or FMT-Dc	200	250	1000	1600	320	50	32	8 / 0	0,2			10x26x8	6x16x5	12x28x8	6x19x6
			1600	2500	500	80	50								
			2500	4000	800	125	80								
FMT-S, FMT-Lx or FMT-Dc	250	250	1000	1600	320	50	32	8 / 0	0,2			10x26x8	6x16x5	12x28x8	6x19x6
			1600	2500	500	80	50								
			2500	4000	800	125	80								
FMT-Lx or FMT-Dc	250	300	1600	2500	500	80	50	8 / 0	0,2			12x28x8	6x19x6	17x40x12	8x22x7
			2500	4000	800	125	80								
			4000	6500	1300	216	130								
FMT-Lx or FMT-Dc	300	250	1000	1600	320	50	32	8 / 0	0,2			10x26x8	6x16x5	12x28x8	6x19x6
			1600	2500	500	80	50								
			2500	4000	800	125	80								
FMT-S, FMT-Lx or FMT-Dc	300	300	1600	2500	500	80	50	8 / 0	0,2			12x28x8	6x19x6	17x40x12	8x22x7
			2500	4000	800	125	80								
			4000	6500	1300	216	130								
FMT-Lx or FMT-Dc	300	400	2500	4000	80	133	80	8 / 0	0,2			15x35x11	8x22x7	17x40x12	8x22x7
			4000	6500	1300	216	130								
			6500	10000	2000	333	200								
FMT-Lx or FMT-Dc	400	300	1600	2500	500	80	50	8 / 0	0,2			12x28x8	6x19x6	17x40x12	8x22x7
			2500	4000	800	125	80								
			4000	6500	1300	216	130								
FMT-S, FMT-Lx or FMT-Dc	400	400	2500	4000	80	133	80	8 / 0	0,2			15x35x11	8x22x7	17x40x12	8x22x7
			4000	6500	1300	216	130								
			6500	10000	2000	333	200								
FMT-Lx or FMT-Dc	400	500	4000	6500	1300	216	130	8 / 0	0,2			20x47x14	10x26x8	20x47x20	10x26x8
			6500	10000	2000	333	200								
			10000	16000	3200	533	320								
FMT-Lx or FMT-Dc	500	400	2500	4000	80	133	80	8 / 0	0,2			15x35x11	8x22x7	17x40x12	8x22x7
			4000	6500	1300	216	130								
			6500	10000	2000	333	200								
FMT-S, FMT-Lx or FMT-Dc	500	500	4000	6500	1300	216	130	8 / 0	0,2			20x47x14	10x26x8	20x47x20	10x26x8
			6500	10000	2000	333	200								
			10000	16000	3200	533	320								
FMT-Lx or FMT-Dc	500	600	6500	10000	2000	333	200	8 / 0	0,2			20x47x20	10x26x8	20x47x20	10x26x8
			10000	16000	3200	533	320								
			16000	25000	5000	800	400								
FMT-Lx or FMT-Dc	600	500	4000	6500	1300	216	130	8 / 0	0,2			20x47x14	10x26x8	20x47x20	10x26x8
			6500	10000	2000	333	200								
			10000	16000	3200	533	320								
FMT-S, FMT-Lx or FMT-Dc	600	600	6500	10000	2000	333	200	8 / 0	0,2			20x47x20	10x26x8	20x47x20	10x26x8
			10000	16000	3200	533	320								
			16000	25000	5000	800	400								



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Interchangeable components:

The mechanical index, equipped with a reed contact, Wiegand or encoder, is an interchangeable component.

Installation conditions:

The FMT-L meter can be equipped with two different flow straighteners, see documentation numbers 10466/6-03 and 10466/7-05. When the large one is installed a straight inlet pipe of 1xDN is applicable. With the small one installed a straight inlet pipe of 5xDN shall be applied.

The FMT-S can only be equipped with the large flow straightener and therefore needs a minimum of 1xDN straight pipe length in front of the inlet.

The FMT-Lx meter has no installation requirements concerning straight inlet tubing. The inlet flow straightener is identical to the FMT-S configuration due to the fact that the FMT-Lx and FMT-S have identical cartridges.

The FMT-Dc meter consists of two FMT-Lx cartridges in one housing. The same installation conditions and flow straighteners are applicable for the FMT-Dc as given for the FMT-Lx.

The necessary straight pipe length is stated on the name plate of the meter.

Any components which could affect the gas flow must be avoided within the prescribed inlet pipe length. The inlet pipe must be designed as a straight pipe section of the same nominal diameter as the gas meter.

Certificate history:

Revision	Date	Description of the modification
Initial	18 July 2025	This OIML certificate replaces the R137/2012-B-NL1-18.05 certificate released under scheme B.