

OIML Member State
The Netherlands

Number R137/2012-A-NL1-20.10 revision 6
Project number 3589117
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Issuing authority NMI Certin B.V.
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Identification of the certified type **A thermal-mass flow gas meter**
Type: x485xxx

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 1,5

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.

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Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
22 November 2022

Certification Board

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

- No. NMI-15200299-02 dated 15 March 2016 that includes 45 pages;
- No. NMI-16200387-02 dated 17 October 2016 that includes 61 pages.
- No. NMI-SO16204082-01 dated 10 November 2016 that includes 15 pages;
- No. NMI-16200852-01 dated 8 May 2017 that includes 13 pages;
- No. NMI-1901756-02 dated 23 March 2018 that includes 12 pages;
- No. NMI-1900623-02 dated 29 May 2017 that includes 17 pages;
- No. NMI-1901029-02 dated 11 October 2017 that includes 14 pages;
- No. NMI-1901403-02 dated 1 February 2018 that includes 21 pages;
- No. NMI-1902208-02 dated 25 July 2018 that includes 14 pages;
- No. NMI-2268368-02 dated 6 December 2018 that includes 10 pages;
- No. NMI-2327085-02 dated 13 June 2019 that includes 3 pages;
- No. NMI-1902287-02 dated 17 February 2020 that includes 18 pages;
- No. NMI-2188742-02 dated 3 June 2020 that includes 16 pages;
- No. NMI-2364857-02 dated 23 November 2020 that includes 26 pages;
- No. NMI-2477858-02 dated 2 April 2021 that includes 19 pages;
- No. NMI-2548615-01 dated 1 July 2021 that includes 17 pages;
- No. NMI-2587901-02 dated 7 October 2021 that includes 16 pages;
- No. NMI-2893273-02 dated 10 February 2022 includes 16 pages;
- No. NMI-3093042-02 dated 10 February 2022 that includes 13 pages;
- No. NMI-3476264-01 dated 3 May 2022 that includes 12 pages.
- No. NMI-3533866-02 dated 6 October 2022 that includes 13 pages.
- No. NMI-3589117-01 dated 22 November 2022 that includes 17 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.
Table 2 gives an overview of the general characteristics of the family of instruments.

Table 1 General characteristics

Destined for the measurement of	Gas volume of natural gas, type H or L or Gas volume of natural gas, type H, L and E, with a Gross Wobbe Index between 39,1 MJ/m ³ and 54,7 MJ/m ³ at 15 °C and 1,01325 bar, including mixtures with a hydrogen concentration of up to 23% by volume.
Environmental classes	M1 / E2
Accuracy class	1.5
Maximum pressure	500 mbar
Ambient temperature range	-25 – +55 °C
Gas temperature range	-25 – +55 °C
Designed for	Condensing humidity
Orientation	Horizontal
Power supply voltage	Battery powered

	Version number	Checksum	Meter size
	EL10	ADB2	G1.6
	EL40	A7345A73	G2.5
	EL40	3F8C0F42	G4 extended
Software identification	EL10	ADB2	G4 MMU6
	E132	03EF	
	E167	D029	
	G182	A1A8	
	G192	18FB	
	G193	03B6	
	G194	1CCF	
	GL01	5812	
	GL10	8096	
	GL10	1FA8	
	I192	8F41	
	GL20	1B98163C	
	GL20	E06D5DC3	
	GL20	8EE0A289	
	GL20	99EFC284	
	GL26	329C8CE4	
GL40	8AAEF5ED		
GL40	9658D989		
GL45	8C4516C6		
GL45	423BE916		
	A132	CA53	G6
	A167	7199	
	J182	BDC1	
	J192	3484	
	J193	4586	
	J194	5FFA	
	JL01	B0DE	
	JL10	7EEA	
	L192	D8DD	
	JL40	A7BCEB12	G10 MMU16
	JL40	568CB31F	
	B166	6CA4	
	B183	82D8	
	B192	B8EF	
	B194	22FA	
	BL01	BD57	
	BL10	4175	
	BL40	AE0F5A61	

	C182 C192 C194 CL01 CL10 CL11 F154 F166 CL13 CL40	C9BE BC94 F780 62F5 B51F F7E8 E336 7D4C D1DD9B83 306988F6	G16 MMU25
	D182 D192 D194 DL01 DL10 DL11 H154 H166 DL13 DL40	E589 E889 416D CBFE 38FA 3EF9 6B95 F29E 050A7042 52840ABD	G25 MMU40
MMU-Hydrogen	DH25	35A7CF47	MMU40
	GH25	6B004CFA	MMU6
Metrology processing software	EL30 EL31 EL32 EL37	3CA2E7AF FCCC0334 98ED4B7A DAE8303A	G1.6 G2.5 G4 extended
	GL30 GL31 GL32 GL35 GL36	457E70AC 7B3F312A 2044FB12 A1919F0B 1F07D529	G4
	JL30 JL31 JL32	917875FB 9F7F23C6 1D9A869B	G6
Bootloader	O430	375B8BF8	GPRS
	O431	C6ECD32B	NB-IoT
	U530 U531	CD16D523 3C67B93F	WMBUS
	W530 W531	CD16D523 3C67B93F	Walk-By

Table 2 General characteristics of the family of instruments

Meter size	G1.6	G2.5	G4 MMU6	G4 ext.	G6	G10 MMU16	G16 MMU25	G25 MMU40	
Minimum flow rate Q_{\min} (m ³ /h)	0,016	0,025	0,04	0,016	0,06	0,1	0,16	0,25	
Transitional flow rate Q_t (m ³ /h)	0,25	0,4	0,6	0,25	1	1,6	2,5	4	
Maximum flow rate Q_{\max} (m ³ /h)	2,5	4	6	6	10	16	25	40	
Overload flow rate Q_r (m ³ /h)	3	4,8	7,2	7,2	12	19,2	30	48	
Indicating range (m ³)	99999 or 999999					999999			
Verification scale interval (m ³)	0,001					0,001			
Nominal diameter [mm]	19 or 32	32				50		65	

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	18 June 2020	-
01	27 November 2020	Addition of report No. NMI-2364857-02 and software update
02	7 October 2021	Addition of meter types using SGM63xx measurement sensor Software updates
03	11 February 2022	Addition of reports No. NMI-2893273-02 and NMI-3093042-02 for revised PCBs.
4	3 May 2022	Addition of G1.6 version with SGM6101 Software update
5	5 October 2022	Addition of new housing for MMU6 Software versions added
6	22 November 2022	New combined communication version Software update