OIML Certificate

OIML Member State
The Netherlands

Number R137/2012-A-NL1-20.10 revision 2
Project number 2587901

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Manufacturer	MeteRSit Viale dell'Industria, 31 35129 Padova Italy
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.

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**
7 October 2021

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.

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/m3 and 54,7 MJ/m3 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
Software identification	EL10 EL40 EL40	ADB2 A7345A73 3F8C0F42	G1.6 G2.5 G4 extended
	EL10 E132 E167 G182 G192 G193 G194 GL01 GL10 GL10 I192 GL20 GL20 GL40 GL40 GL45 GL45	ADB2 03EF D029 A1A8 18FB 03B6 1CCF 5812 8096 1FA8 8F41 1B98163C E06D5DC3 8AAEF5ED 9658D989 8C4516C6 423BE916	G4 MMU6
	A132 A167 J182 J192 J193 J194 JL01 JL10 L192 JL40 JL40	CA53 7199 BDC1 3484 4586 5FFA B0DE 7EEA D8DD A7BCEB12 568CB31F	G6
	B166 B183 B192 B194 BL01 BL10 BL40	6CA4 82D8 B8EF 22FA BD57 4175 AE0F5A61	G10 MMU16

	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
Metrology processing software	EL30	3CA2E7AF	G1.6 G2.5 G4 extended
	GL30	457E70AC	G4
	JL30	917875FB	G6
Bootloader	O430	375B8BF8	GPRS
	U530	CD16D523	WMBUS
	W530	CD16D523	Walk-By

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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]	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