OIML Certificate

OIML Member State
The Netherlands

Number R61/2017-A-NL1-22.01 revision 0
Project number 3269935

Issuing authority	NMi Certin B.V. Person responsible: M.Ph.D. Schmidt
Applicant and Manufacturer	PIM Products B.V. Herenweg 16 8536 TN Oosterzee The Netherlands
Identification of the certified type	An **Automatic gravimetric filling instrument** Type : PIM MHWx (where x represents the number of load receptors)
Characteristics	See next page

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 Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 61-1:2017 for reference class Ref (1)

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified.
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 Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
21 December 2022

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Reports:
- No. NMi-3269935-01 dated 21 December 2022 that includes 31 pages;
- No. NMi-3269935-02 dated 21 December 2022 that includes 19 pages;
- No. NMi-3269935-03 dated 21 December 2022 that includes 28 pages.

Characteristics of the automatic gravimetric filling instrument

Method of operation		selective combination weighing or selective combination weighing combined with cummulative filling or filling by one weighing cycle	
Reference accuracy class		Ref (1) the operational accuracy class X(x) is determined at the time of putting into use	
Electromagnetic environment class		E2	
Climatic environment	temperature range	-10 °C / +40 °C	
	humidity	ADPD and DDPD	Mechanical assembly
		non-condensing	condensing
	intended location	Closed	open and closed
Maximum capacity of each load receptor		Calculated using the compatibility of modules form, contained in OIML R76 (2006) clause F.4	
Scale interval		Calculated using the compatibility of modules form, contained in OIML R76 (2006) clause F.4	
Number of load receptors		4 to 24	
Power supply voltage		24 V DC	
Software identification Monitor SW-version		V7,xxx (xxx is number between 001 and 999)	
Software identification BrainsBox SW-versie		zzzz-V7.xxx:yyyy-mm-dd (zzzz is number between 0000 and 9999) (xxx is number between 013 and 999) yyyy-mm-dd represents a date	

The identification number will be displayed on the Human Machine Interface (HMI) by:
- Selecting the button in the lower left corner of the main menu;
- Selecting the information button.

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Characteristics of the Analog Data Processing Device

Accuracy class	OIML R 76	(III) or (IIII)
	OIML R 61	Ref(0,2)
Weighing range		Single interval
Maximum number of scale intervals		n ≤ 3000
Load cell excitation voltage		5 V AC square wave
Minimum signal input voltage		U_{min} = 0 mV
Minimum input voltage per verification scale interval		1 µV
Minimum load cell resistance		350 Ω
Maximum load cell resistance		1050 Ω
Fraction of the maximum permissible error		0,5
Load cell interface		6-wire with sense technology, may be configured as 4-wire
Maximum value of the cable length per cross wire section between the indicator and the junction box or load cells		No special cable length In case sense technology is not used the load cells are connected directly without junction box or extension cable

Rated minimum fill (Minfill):

	Minfill [g]							
	Operational accuracy class X(1)							
Average number of loads per fill	1	2	3	4	5	6	7	8
0,5 g	22	31,5	38,5	44,5	49,5	109	117,5	125,5
1 g	44	126	154	178	199	327	353	377
2 g	178	378	462	1066	1192	1306	1412	1508
5 g	1335	1885	2310	2665	2980	3265	3530	3770
10 g	2670	3770	4620	5330	5960	6530	7060	7540

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	Minfill [g]							
	Operational accuracy class X(2)							
Average number of loads per fill	1	2	3	4	5	6	7	8
0,5 g	11	15,5	19	22	25	27	29,5	31,5
1 g	22	31	38	44	50	109	118	126
2 g	44	126	154	178	198	326	352	378
5 g	335	470	1155	1335	1490	1635	1765	1885
10 g	1330	1890	2310	2670	2980	3270	3530	3770

Revision History

Revision	Date	Change(s)
0	2022-12-21	Initial issue.