



Translation conformal to original text in Italian. In case of any discrepancies, the Italian version shall prevail



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EU-Type examination certificate (Module B)

We certify that, on the basis of tests and assessment carried out, the following measuring instruments of the Organization:

PAGLIERANI S.r.l.

Registered Headquarters

Via Santarcangiolese, 5 – 47824 Poggio Torriana (RN) – Italy

are in compliance with the applicable requirements, listed below, of D.Lgs. No. 22 dated 2 February 2007, as modified by D.Lgs. No. 84 dated 19 May 2016, that transponds Directive 2014/32/EU in Italy, according to Annex II Module B.

With this Certificate, permission is given to attach the number of this Certificate to the instruments that have been manufactured in compliance with the details reported in the technical sheet annexed.

Measuring instrument:

Automatic gravimetric filling instrument

Type:

CSM-P2

Applicable essential requirements::

Annex 1 (essential requirements) / Annex VIII MI-006 Chapter I and Chapter III (Specific requirements)

This certificate is subject to Kiwa Cermet Italia regulation and it is valid only for the above-mentioned measuring instruments. The main characteristics and approval conditions are set out in the Technical Sheet, which is an integrating part of this certificate. The compliance with any other applicable directive is under responsibility of the manufacturer.

This certificate cannot be reproduced, if not in its integral form.

President

Giampiero Belcredi

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PRD N° 069B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements



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0.1 History of the Certificate

Revision	Date of issue	Modifications
00	2023-07-11	First issuance

0.2 Main documents of reference

- 0.2.1 Harmonized standards / OIML recommendations of reference
- OIML R 61-1: "Automatic gravimetric filling instruments – Part 1: Metrological and technical requirements – Tests" – 2017
- 0.2.2 Other technical documents of reference
- Welmec 7.2: "Software Guide" – 2022

Identification of the main characteristic and approval conditions for the validity of this Certificate, to which this Technical Sheet refers to:

1. Design of the instrument

1.1 Construction

The CSM-P2 type automatic gravimetric filler is used for dosing powder or granular products with a predetermined and constant mass.

As a general description, the structure of the measurement system includes the following components:

- a feeding system for the product to be dosed
- the load receptor, in the form of a hopper, supported by load cells
- a CSM-P2 type weight indicator, for processing the signal from the load cells, and displaying the measurement results
- an electrical panel for the service of the measuring system

The metrological function ensured is the determination of the net weight of the dosed product.

1.1.1 List of main critical components

The measuring instrument is formed by the following main components:

Type of component	Manufacturer	Model
Single-point load cell	Paglierani	AH / CN / GL/P
Weight indicator	Paglierani	CSM-P2

1.2 Sensor

The sensor consists of one or more single point load cells of the type indicated in par. 1.1.1, accuracy class C3 or higher.



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Compatible load cells can also be used provided that the following conditions are met:

- the presence of a Conformity Certificate OIML R60 or a Test Certificate EN 45501 released for the load cells from a Notified Body responsible for the type examination in the field of directives 2014/31/UE o 2014/32/UE
- the certificate contains the type of load cells and all of the information necessary and required by the declaration of the manufacturer of compatibility of the modules (Welmec 2 guide) and any particular set-up requirement. A load cell branded NH is admitted only if a humidity test EN 45501 has been performed on the cell
- it is not a load cell with digital output
- load cell performance are the same or better than load cell listed in par. 1.1.1
- load transmission must comply with one of the examples showed in the Welmec 2.4 guide for the load cells

1.3 **Measurement value processing**

1.3.1 Hardware

The measurement chain is composed by:

- load receptor, that hosts the load cell
- weight indicator, including display

The main components of the weight indicator are:

- main board with CPU, A/D converter, display control, I/O with instrument power, keyboard management
- display board
- keyboard

The display is dedicated to visualizing the measurement result and the data set and calculated by the measurement system. EIGHT LEDs are also part of the display, which indicate to the user the active phase of the weighing cycle for the measuring system.

1.3.2 Software

The metrologically relevant software of the measuring system, classified as type P in risk class B, is identified as follows: 0.7 .

There are no commands accessible to the user that allow changing metrologically relevant data.

Access to the calibration menu is activated through the appropriate button, located inside the weight indicator casing.



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1.4 Indication of the measurement results

The individual measurements are shown on the display. The display remains active until a new weighing cycle is started.

1.5 Optional equipment and functions subjected to MID requirements

The metrological functions of the measuring instrument are:

- initial zeroing (automatic)
- programmable automatic zeroing
- semi-automatic zeroing
- zero tracking
- extended indicating device (1/10)
- status indication
 - zero weight
 - stable weight
 - weighing ready
- semi-automatic tare (subtractive)
- static calibration, not accessible to the user

1.6 Technical documentation

Technical file: Fascicolo Tecnico riempitrice gravimetrica con CSM-P2 rev.02 dated 2023-05-05 with annexed manuals for use and maintenance.

1.7 Integrated/Optional equipment and functions not included in the validity range of this Type-examination Certificate

Not present.



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2. Technical data

2.1 *Rated operating conditions*

- measurand: mass of fillings of powder or granular products
- reference value for accuracy class: Ref(0,5) / Ref(1)
- accuracy class X(x): ≥ 0.5 , to be determined after carrying out tests at the installation site
- Max capacity: ≤ 5000 kg
- scale interval d: ≥ 0.001 kg
- max number of divisions n: ≤ 6000
- minimum values for Minfill (kg):

d (g)	X(0.5)	X(1)
1	0.124	0.031
2	0.374	0.124
5	1.870	0,935
10	3.73	1.87
20	11.20	3.74
50	28.00	14.00
100	56.0	28.0
200	112.0	56.0
≥ 500	280.0	140.0

- maximum operating speed: to be determined after carrying out tests on the installation site
- climatic environment class: $-10 / +40$ °C
- electromagnetic environment class: E2

2.2 *Other operating conditions*

- type of instrument: subtractive
- initial zero setting range: 20% Max
- automatic zero setting after a programmable cycles interval: 1 / 99
- semi-automatic zero setting range: 4% Max
- semi-automatic tare subtraction range: 4% Max
- place of use: closed, not condensed (class H1 according to OIML D11)
- type of installation: fixed

3. Interfaces and compatibility conditions

Not present.



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4. Requirements on production, putting into use, and utilization

4.1 Requirements on production

Described in the technical documentation.

4.2 Requirements on putting into use

Described in use and maintenance manual.

4.3 Requirements for consistent use

Described in use and maintenance manual.

5. Checking of instruments which are in operation

Copy of this certificate and of the use and maintenance manual shall be available for checking operations.

5.2 Special test facilities or software

No specific software tools are required for checking the instrument.

Suitable static weight scales must be available to carry out the control tests for compliance with the applicable metrological requirements (see par. 5.4).

5.3 Identification

5.3.1 Hardware

The verification must take into consideration the following elements:

- format and content of the metrological plate
- presence and integrity of the seals, as per legalization plan
- examination of the measuring instrument to ensure compliance with the certified type

5.3.2 Software

Information on the identification of the metrologically relevant software are displayed when the measuring system is switched on.

5.4 Calibration/adjustment procedure

Verification of compliance with the maximum errors permitted in terms of quantity, and the maximum operating speed, is performed according to the methods indicated in par. 12.2 of the OIML R 61-2 recommendation.

6. Security measures

6.1 Mechanical seals

The legalization plan envisages placing non-removable self-adhesive labels in specific points, or other suitable means to make evident the attempted tampering with the measuring system. Seals are placed on the following components:

- on the weight indicator casing, to prevent it from being opened
- on the safety plate covering the cable connections of the load cell(s), to prevent their removal
- on any cable junction box of the load cell(s), to prevent it from opening
- on the metrological plate, to prevent its removal



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6.2 Electronic seals

Not in use.

6.3 Software seals

Not in use.

7. Labelling and inscriptions

7.1 Information to be enclosed with the instrument

Described in use and maintenance manual.

7.2 Markings and inscriptions

The metrological plate is fixed to a visible part of the instrument. It contains the data required by Directive 2014/32/EU Annex 1 art. 9.

The license plate support can be made of aluminum alloy or anti-theft plastic material.

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