EU-type examination certificate

Number **T11625** revision 0
Project number 2360304

Issued by

NMi Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to conformity modules mentioned in Article 13 of Directive 2014/31/EU, after having established that the measuring instrument meets the applicable requirements of Directive 2014/31/EU, to:

Manufacturer

Precisa Gravimetrics AG
Moosmattstrasse 32
CH-8953 Dietikon
Switzerland

Measuring instrument

A **Non-automatic weighing instrument**
Type : BCM Series

Further properties are described in the annexes:
– Description T11625 revision 0;
– Documentation folder T11625-1.

Valid until

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Issuing Authority

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INSPECTION
RvA I 122

Description

1 General information about the non-automatic weighing instrument

All properties of the non-automatic weighing instrument, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential parts

The electronics;
The mechanical assembly with weighing cell.

See block diagram:

Number	Pages	Description	Remarks
11625/0-01	1	Block diagram	-

EMI protection measures:
- See block diagram above for details.

1.2 Essential characteristics

Accuracy class	(I)	(II)
Maximum capacity	500 g ≤ Max ≤ 6200 g or 2500 ct ≤ Max ≤ 31000 ct	50 g ≤ Max ≤ 12 kg or 250 ct ≤ Max ≤ 60000 ct
Verification scale interval	e ≥ 0,01 g or e ≥ 0,1 ct	
Actual scale interval	e = d, or e = 10 d	
Weighing range	Single interval	
Maximum number of scale intervals	n ≤ 82000 divisions	n ≤ 42000 divisions
Temperature range	+10 °C / +30 °C	
Power supply voltage	AC/DC adapter of 100 – 240 V AC 50/60 Hz to 12 V DC or by 6 V rechargeable internal battery	
Software identification	Checksum: C261 or 4EB0	

The software identification is displayed at start-up, or after the following steps:
- Press the [Function] key while pressing the [Zero/Tare] key. Release the keys when “Func2” is displayed, then the display changes to "1.CRC.0";
- Select "1.CRC.1" by pressing the [Zero/Tare] key. Press the [Function] key, then the checksum is indicated after “Wait” display for a few seconds;
- Press any key, except [on/off] key, to return to the weighing mode.

The non-automatic weighing instrument has embedded software.

1.3 Essential shapes

Number	Pages	Description	Remarks
11625/0-02	1	External views 1	Including sealing details
11625/0-03	1	External views 2	Including sealing details
11625/0-04	1	External views 3	Including sealing details
11625/0-05	1	External views 4	Including sealing details
11625/0-06	1	External views 5	Including sealing details
11625/0-07	1	External views 6	Including sealing details
11625/0-08	1	External views 7	Including sealing details
11625/0-09	1	External views 8	Including sealing details

The data plate is secured against removal by sealing or will be destroyed when removed.

Inside the cabinet is an adjustment lock, located on the main board.

1.4 Conditional parts

The non-automatic weighing instrument may be equipped with peripheral equipment which is used for the applications listed in Article 1(2), (a) to (f) of Directive 2014/31/EU, provided that the peripheral equipment is certified to be connected to a non-automatic weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU, or, that the equipment and the use of the equipment complies with the requirements of WELMEC 2.5 Issue 2 clause 2.2.

The non-automatic weighing instrument is fitted with a levelling device and a level indicator, unless the instrument is installed in a fixed position. The level indicator has a sensitivity of at least 2 mm for a tilt of 2/1000.

1.5 Non-essential parts

The non-automatic weighing instrument may be connected to non-essential devices, for example but not limited to bar code readers, foot switches, second displays and cash drawers, provided that:
- They do not present primary data used for purposes mentioned in Article 1(2), (a) to (f) of Directive 2014/31/EU unless the "Preliminary observation" in Annex I of the Directive is satisfied;
- They do not lead to an instrument having other essential characteristics than those fixed by this certificate.

Other non-essential parts:
- Windscreen over the load receptor;
- Internal battery.

2 Information about the main constituent parts of the non-automatic weighing instrument

2.1 The electronics

2.1.1 Essential parts

Number	Pages	Description	Remarks
11625/0-10	1	Main board lay out	-
11625/0-11	1	Main board IC list	-

2.1.2 Essential characteristics

List of legally relevant functions:
- Determination stability of equilibrium;
- Indication of stable equilibrium;
- Zero indicating;
- Initial zero setting;
- Zero-tracking;
- Combined semi-automatic zero-setting and subtractive tare balancing;
- Semi-automatic span adjustment with internal adjustment weight (optional for class (II));
- Semi-automatic span adjustment with internal or external adjustment weight (only for class (I));
- Adjustment / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Weight unit selection (g, ct);
- Auxiliary indication with differentiated scale division (optional);
- Switching between gross and net indication.

2.1.3 Conditional parts

Number	Pages	Description	Remarks
11625/0-12	1	Battery unit board lay out	-
11625/0-13	1	Battery unit board IC list	-

The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:
- RS232C;
- Relay output.

AC/DC adapter; model 6A-121WP12, input 100 - 240 V AC 50/60 Hz, output 12 V.

2.1.4 Non-essential parts

Display;
Keyboard.

2.1.5 Non-essential characteristics

- Check weighing mode (=comparator function);
- Percentage weighing mode;
- Piece counting mode.

2.2 The mechanical assembly with weighing cell

2.2.1 Essential parts

Number	Pages	Description	Remarks
11625/0-14	1	Exploded view 1	-
11625/0-15	1	Exploded view 2	-
11625/0-16	1	Exploded view 3	-
11625/0-17	1	Weighing cell type 1	-
11625/0-18	1	Weighing cell type 2	-

2.2.2 Essential characteristics

Maximum capacity of the weighing cell in case of class (I):
- Max 820 g with e = 0,01 g;
- Max 6200 g with e = 0,1 g.

Maximum capacity of the weighing cell in case of class (II):
- Max 420 g with e = 0,01 g;
- Max 4200 g with e = 0,1 g;
- Max 12 kg with e = 1 g.

2.2.3 Essential shapes

See chapter 2.2.1.

3 Seals

To secure components that may not be dismantled or adjusted by the user, the non-automatic weighing instrument has to be secured in a suitable manner on the locations indicated in the drawings given in chapter 1.3 of this certificate.

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfil the requirements of point 1 of Annex III of Directive 2014/31/EU.