

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
8953 Dietikon
Switzerland

Measuring instrument **A Non-automatic weighing instrument**
Type : Series 490

Further properties are described in the annexes:

- Description T12095 revision 0;
- Documentation folder T12095-1.

Valid until 26 February 2031

Issuing Authority **NMI Certin B.V., Notified Body number 0122**
26 February 2021

Certification Board

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
12095/0-01	1	Block diagram	-

EMI protection measures:

- Steel housing;
- Ferrite on the weighing platform side of the cable to the display;
- The weighing cell board is shielded with a metal cover;
- Two ferrites on the flatcable from the weighing cell board to the photoelectric sensor board.

1.2 Essential characteristics

Accuracy class	(II)	
Maximum capacity	$5 \text{ kg} \leq \text{Max} \leq 60,1 \text{ kg}$	$500 \text{ oz t} \leq \text{Max} \leq 1289 \text{ oz t}$
Verification scale interval	$e \geq 1 \text{ g}$	$e \geq 0,1 \text{ oz t}$
Actual scale interval	$e = 10 \text{ d}$	
Weighing range	Single interval	
Maximum number of scale intervals	$n \leq 30100$	
Tare	$T \leq -\text{Max}$	
Temperature range	$+ 10 \text{ }^\circ\text{C} / + 30 \text{ }^\circ\text{C}$	
Power supply voltage	$115 - 230 \text{ V AC } 50/60 \text{ Hz}$	
Software identification	Version number	$yy.yy \text{ EyyXyy}$ (y = 0...9, A...Z and represents non-legally relevant changes to the software)
	Checksum	0320

The software identification (on line one) and checksum (on line 2) are displayed at start-up.

The non-automatic weighing instrument has embedded software.

1.3 Essential shapes

Number	Pages	Description	Remarks
12095/0-02	1	Exploded view group 490 30 kg	Revision F
12095/0-03	1	Exploded view group 490 30 IP65	Revision F
12095/0-04	1	Exploded view group 490 60 kg	Revision F
12095/0-05	1	Exploded view group 490 60 kg IP65	Revision F
12095/0-06	1	Terminal IB neutral	-
12095/0-07	1	Terminal IB neutral IP65	-

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. A ring on the level indicator indicates when the maximum tilt is exceeded.

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

- RS232.

Power supply board:

- Brand Mean Well, type NFM-20-12.

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.

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
12095/0-08	7	Main board + partlist	Revision F
12095/0-09	5	Main board + partlist	Revision J
12095/0-10	4	Smartbox board + partlist	Revision A
12095/0-11	5	Weighing cell board + partlist	Revision G

2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Preset tare;
- Indication of stable equilibrium;
- Calibration / set-up mode via a switch on the main board;
- Automatic span adjustment with internal calibration mass;
operational when:
 - After switch on
 - $\Delta t \leq 3 \text{ }^\circ\text{C}$
 - On every ≤ 24 hours
- Semi-automatic span adjustment with external calibration mass;
- Acting upon significant faults;
- Checking the display;
- Weight unit selection (g, oz t).

When equipped with a printer the following legally relevant functions may be present:

- Indications other than primary indications;
- Indication of additional information;
- Memory storage.

2.1.3 Non-essential parts

Display;
 Keyboard;
 Printer.

2.2 The mechanical assembly with weighing cell

2.2.1 Essential parts

Number	Pages	Description	Remarks
12095/0-12	1	Weighing cell 490 30 kg	Revision F1
12095/0-13	1	Weighing cell 490 60 kg	Revision F1
12095/0-14	1	Specification sheet	-

2.2.2 Essential characteristics

For instruments with a Max of 30,1 kg, the maximum capacity of the weighing cell is 34 kg;
 For instruments with a Max of 60,1 kg, the maximum capacity of the weighing cell is 60 kg.

2.2.3 Essential shapes

See 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 drawing:

Number	Pages	Description	Remarks
12095/0-15	1	Sealing	Revision A

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.