

Issued by	NMi Certin B.V., designated and notified by the Netherlands to perform tasks with respect to conformity assessment procedures 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	<b>A Non-automatic weighing instrument</b> Type : 520 Series (PT: with touch screen, PB: with LCD screen)  Further properties are described in the annexes: – Description T12340 revision 1; – Documentation folder T12340-1.
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#### Certification Board

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## 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.

See block diagram:

Number	Pages	Description	Remarks
12340/0-01	1	Block diagram	-

EMI protection measures:

- Ferrite on cable between connector board and main board;
- Ferrite on the power adapter cable.

### 1.2 Essential characteristics

Accuracy class	(I)	(II)
Maximum capacity	$120 \text{ g} \leq \text{Max} \leq 220 \text{ g}$	$320 \text{ g} \leq \text{Max} \leq 10200 \text{ g}$
Verification scale interval	$e \geq 0,001 \text{ g}$	$e \geq 0,01 \text{ g}$
Actual scale interval	$e = d$ or $e = 10 d$	
Weighing range	Single interval	
Maximum number of scale intervals	$n \leq 220000$	$n \leq 62000$
Tare	$T \leq -\text{Max}$	
Temperature range	$+15 \text{ }^\circ\text{C} / +25 \text{ }^\circ\text{C}$	$+10 \text{ }^\circ\text{C} / +30 \text{ }^\circ\text{C}$
Power supply voltage	$100 - 240 \text{ V AC } 50/60 \text{ Hz}$	
Software identification	Check number	0330 (PB and PT version)
	Firmware version	00,00ExxG00 (PB version) G01-0000 Exx (PT version) (xx=00...99)

The software identification is displayed:

- For PB series: during start-up of the instrument;
- For PT series: by pressing "Menu" "Settings" "About device" "Device information".

The non-automatic weighing instrument has embedded software.

### 1.3 Essential shapes

Number	Pages	Description	Remarks
12340/0-02	7	Outline drawings	-
12340/0-03	8	Exploded views	Including parts list

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

The inscriptions Max, Min, e, as required by Directive 2014/31/EU Annex III clause 1.4 are presented in the display by software.

### 1.4 Conditional parts

The instrument may be equipped with the following parts that further process the measurement result without modification under the conditions stated in the table:

Part	Condition(s)	Reference document
Simple recipient printer	CE marking present	WELMEC 2.10 clause 3.1.3
Printer Data Storage Device	CE marking present and the part is certified to be connected to a weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU.	WELMEC 2.10 clause 3.1.3

The non-automatic weighing instrument is fitted with a levelling device and a level indicator (physical or digital). 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;
- Ethernet;
- USB device;
- USB host.

Power supply:

- AC/DC plug-in power supply: Adapter Tech, ATS036T-P120

### 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 Directive 2014/31/EU Article 1(2), (a) to (f) unless the (Preliminary observation) in Directive 2014/31/EU Annex I 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
12340/0-04	6	Schematic diagram of main board	-
12340/0-05	7	Parts list main board	-

#### 2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Semi-automatic zero-setting;
- Automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Preset tare;
- Adjustment / set-up mode via a switch on the connector board;
- Automatic span adjustment with internal calibration mass, operational:
  - after switch on;
  - when  $\Delta t \geq 3$  °C;
  - every 24 hours.
- Semi-automatic span adjustment with internal calibration mass;
- Semi-automatic span adjustment with external calibration mass (only for class I instruments);
- Acting upon significant faults;
- Checking the display;
- Weighing unstable samples;
- Data Storage Device that complies with OIML R 76 (2006) clause 5.5.3 and EN 45501:2015 clause 5.5.3.

#### 2.1.3 Conditional parts

Number	Pages	Description	Remarks
12340/0-06	3	Schematic diagram of connector board	-
12340/0-07	3	Parts list connector board	-

## 2.1.4 Non-essential parts

Display;  
 Keyboard.

## 2.2 The mechanical assembly

### 2.2.1 Essential parts

Number	Pages	Description	Remarks
12340/0-08	7	Weighing cell assembly	-

### 2.2.2 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
12340/0-09	1	Sealing	-

Inside the cabinet is an adjustment push button, located on the connector board.

## 4 Conditions for conformity assessment

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