EC type-approval Certificate

Number **T7911** revision 1
Project number SO14200107

Issued by	NMi Certin B.V., designated and notified by the Netherlands to perform tasks with respect to conformity modules mentioned in article 9 of Directive 2009/23/EC, after having established that the measuring instrument meets the applicable requirements of Directive 2009/23/EC, to:
Manufacturer	Precisa Gravimetrics AG Moosmattstrasse 32 CH-8953 Dietikon Switzerland
Measuring instrument	A **Non-automatic weighing instrument** Type : Serie LX/LS/LT
	Further properties are described in the annexes: – Description T7911 revision 1; – Documentation folder T7911-2.
Valid until	13 June 2023
Remark	This revision replaces the earlier versions, including its documentation folder.
Issuing Authority	**NMi Certin B.V., Notified Body number 0122** 31 January 2014

C. Oosterman
Head Certification Board

NMi Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands
T +31 78 6332332
certin@nmi.nl
www.nmi.nl

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

See drawing "Block diagram", drawing number 7911/0-07;
The electronics;
The mechanical assembly with load cell.

EMC protection measures:
- The instrument has a metal enclosure.

1.2 Essential characteristics

Accuracy class	(I)		(II)
Maximum capacity	120 g ≤ Max ≤ 1220 g		160 g ≤ Max ≤ 10200 g
Verification scale interval	e ≥ 1 mg		e ≥ 10 mg
Maximum number of scale intervals	n ≤ 320000 divisions (per partial weighing range)		
Maximum partial weighing ranges	1		
Temperature range	+15 °C / +25 °C		+10 °C / +30 °C
Tare	T ≤ -Max		
Weighing range(s)	Single interval		
Power supply voltage	100 – 240 V AC 50/60 Hz (with external adapter) 12 V DC (supplied by external adapter)		
Software identification	Type LX/LS	Version number: xx.xx ExxD01	where xx can be 00-99 or A-Z, represents the non legally relevant parts and E..D00/E..D01 represent the legal-relevant part of the software
	Type LT	Version number: xx.xx ExxD00	

Software:
- The identification number will be displayed at start-up.

1.3 Essential shapes

The non-automatic weighing instrument is built according to the drawings:
- "Outline drawings", drawing number 7911/1-01;
- "Exploded views", drawing number 7911/1-02.

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

Inside the cabinet is a calibration 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) of Directive 2009/23/EC, provided that the peripheral equipment is certified to be connected to an EC type-approved non-automatic weighing instrument by a Notified Body responsible for type examination under Directive 2009/23/EC, or that the equipment and the use of the equipment comply with the requirements of WELMEC 2.5 Issue 2 Section 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.

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 display's and cash drawers, provided that:
- They do not present primary data used for purposes mentioned in article 1(2)(a) of Directive 2009/23/EC unless the "preliminary observations" in Annex 1 of this directive is satisfied;
- They do not lead to an instrument having other essential characteristics than those fixed by this type-approval document.

Other non-essential parts:
- AC/DC-adapter.

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
7911/1-03	16	Main board layouts	PCB diagrams, parts list

2.1.2 Essential characteristics

List of legally relevant functions:
- Determination stability of equilibrium;
- Indication of stable equilibrium;
- Zero indicator;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Preset tare;
- Calibration / set-up mode via a switch on the main board;
- Automatic span adjustment with internal calibration mass;
  operational when:
  - After switch on
  - $\Delta t \geq 3$ °C
  - On every $\leq$ 24 hours
- Semi-automatic span adjustment with internal calibration mass;
- Semi-automatic span adjustment with external calibration mass;
- Acting upon significant faults;
- Checking the display;
- Check weighing mode;
- Weighing unstable samples;
- Weight unit selection (g, mg, ct).

When equipped with a printer the following legally relevant function may be present:
- Indications other than primary indications;
- Indication of additional information;
- Memory storage;
- Non-weighed articles;
- Totalization;
- Multi-vendor;
- Price labeling.

2.1.3 Conditional parts

Number	Pages	Description	Remarks
7911/0-04	2	Interface board	PCB diagram, parts list

The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:
- RS232;
- USB.

2.1.4 Non-essential parts

Display;
Keyboard;
Printer.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Number	Pages	Description	Remarks
7911/0-06	5	Weighing cell assembly	-

2.2.2 Essential characteristics

See document “Weighing cell specifications”, drawing number 7911/0-08.

2.2.3 Essential shapes

See drawings:
- “Weighing cell assembly”, drawing number 7911/0-06.

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:
- “Sealing”, drawing number 7911/0-05.

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfill the requirements of article 1 of Annex IV of Directive 2009/23/EC.