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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  
8953 Dietikon  
Switzerland

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

Further properties are described in the annexes:  
– Description T7542 revision 2;  
– Documentation folder T7542-2.

Valid until 9 April 2019

Remarks This revision replaces the earlier versions, including its documentation  
folder.

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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

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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 with load cell.

See block diagram:

Number	Pages	Description	Remarks
7542/2-01	1	Block diagram	-

EMI protection measures:

- Steel housing;
- SMD EMI filters.

### 1.2 Essential characteristics

Accuracy class	Ⓘ
Maximum capacity	Max ≤ 60,1 kg
Verification scale interval	e ≥ 1 g
Actual scale interval	e = 10 d
Weighing range	Single interval
Maximum number of scale intervals	n ≤ 30100 divisions
Temperature range	+10 °C / + 30 °C
Power supply voltage	230 V AC 50/60 Hz

### 1.3 Essential shapes

Number	Pages	Description	Remarks
7542/2-02	1	Exploded view group 490 30 kg	-
7542/2-03	1	Exploded view group 490 30 IP65	-
7542/2-04	1	Exploded view group 490 60 kg	-
7542/2-05	1	Exploded view group 490 60 kg IP65	-
7542/2-06	1	Terminal IB neutral	-
7542/2-07	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) of Directive 2009/23/EC, 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 2009/23/EC, or, that the equipment and the use of the equipment complies with the requirements of WELMEC 2.5 Issue 2, 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 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 plug-in power supply.

## 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
7542/2-08	7	Main board + partlist	Revision F
7542/2-09	5	Main board + partlist	Revision J
7542/2-10	4	Smartbox board + partlist	-
7542/2-11	6	Weighing cell board + partlist	Revision D
7542/2-12	4	Weighing cell board + partlist	Revision E

#### 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  $\leq 24$  hours
- Semi-automatic span adjustment with external calibration mass;
- Acting upon significant faults;
- Checking the display.

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 Conditional parts

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

- RS232.

## 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
7542/2-13	1	Weighing cell 490 30 kg	-
7542/2-14	1	Weighing cell 490 60 kg	-
7542/2-15	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.

## 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:

Number	Pages	Description	Remarks
7542/2-16	1	Sealing	-

## 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.