



EC type-approval certificate

Number **T7925** revision 1
Project number 11219000 /
SO11200981
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Issued by NMI Certin B.V.
Hugo de Grootplein 1
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The Netherlands

In accordance with The Council Directive 2009/23/EC on non-automatic weighing instruments.

Manufacturer Shimadzu Corporation
1, Nishinokyo-Kuwabaracho
Nakagyo-ku
Kyoto 604-8511
Japan

In respect of A class **I**, electronic, single range **non-automatic weighing instrument**.
Manufacturer mark/name: Shimadzu
Type ATX.../ATY...

Characteristics $62 \text{ g} \leq \text{Max} \leq 320 \text{ g}$ or $600 \text{ ct} \leq \text{Max} \leq 1600 \text{ ct}$
 $e \geq 1 \text{ mg}$ or $e \geq 0,01 \text{ ct}$
 $e = 10d$
 $n \leq 320000$

Temperature range $+10 \text{ }^\circ\text{C} / +30 \text{ }^\circ\text{C}$

In the description number T7925 revision 1 further characteristics are described.

Valid until 30 June 2021

Description and documentation The instrument is described in the description number T7925 revision 1 and documented in the documentation folder T7925-2, appertaining to this EC type-approval certificate.

Remarks This revision EC type-approval certificate replaces the earlier version, including its documentation folder.

The Notified Body no. 0122
NMI Certin, 22 November 2011


C. Oosterman
Head 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, may not be in conflict with the legislation.

1.1 Essential parts

See drawing Block Diagram, drawing number 7925/0-04;
The electronics;
The mechanical assembly with force cell.

EMC protection measures:

- The force cell and its accompanying control boards are shielded with a metal cover;
- A ferrite ring on the cable between the analog board and the display board.

1.2 Essential characteristics

Power supply: 12 V DC.

1.3 Essential shapes

The non-automatic weighing instrument is built according to the drawings:

- Exploded view, drawing number 7925/0-01 (3 pages);
- Appearance, drawing number 7925/0-02.

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

- Label positions, drawing number 7925/0-03.

Inside the cabinet is a calibration lock, located on the display 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, if 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.

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.

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

2.1 The electronics

2.1.1 Essential parts

Description	Drawing number	Remarks
Display board component layout and list	7925/0-05	Lay-out including parts list
Display board component layout and list	7925/1-01	Lay-out including parts list
Power board component layout and list	7925/0-06	Lay-out including parts list
Preamplifier board component layout and list	7925/0-07	Lay-out including parts list
Analog board component layout and list	7925/0-08	Lay-out including parts list

2.1.2 Essential characteristics

List of devices:

- Determination stability of equilibrium;
- Zero indicator;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Indication of stable equilibrium;
- Calibration / set-up mode via a switch on the main board;
- Semi-automatic span adjustment with internal calibration mass (ATX model only);
- Automatic span adjustment with internal calibration mass (ATX model only);
- operational:
 - When $\Delta t \geq 2$ °C;
 - On every ≥ 4 hours;
 - Cannot be disabled.
- Semi-automatic span adjustment with external calibration mass;
- Acting upon significant faults;
- Checking the display;
- Check weighing mode;
- Weight unit selection (g, mg, ct).



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2.1.3 Conditional parts

The interface section is located on a separate interface board. The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:

- Data I/O.

AC/DC adapter, type FW75550/12.

List of devices:

- Percentage weighing mode;
- Piece counting mode;
- Determination of specific gravity of solids;
- Determination of specific gravity of liquid.

2.1.4 Non-essential parts

Display;
Keyboard.

2.2 The mechanical assembly with force cell

2.2.1 Essential parts

Description	Drawing number	Remarks
Force cell	7925/0-09	-

2.2.2 Essential shapes

See drawings:

- Force cell, drawing number 7925/0-09.

3 Approval conditions

See chapter 1.3, essential shapes.

4 Seals and verification marks

See chapter 1.3, essential shapes.

5 CE-mark of conformity and inscriptions

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.