

Issued by	NMi Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands
In accordance with	The Council Directive 2009/23/EC on non-automatic weighing instruments.
Manufacturer	Taiwan Scale Mfg. Co., Ltd. 282, Sec. 3 Hoping W. Road Taipei Taiwan
In respect of	A class (III) , electronic, single- or multi-interval non-automatic weighing instrument , intended to be used for direct sales to the public. Manufacturer mark/name: TScale Type : ASP / ATP / AHW / AHC / QSP / QTP / QHW / QHC
Characteristics	$3 \text{ kg} \leq \text{Max} \leq 30 \text{ kg}$ $e \geq 1 \text{ g}$ $n \leq 3000$ divisions (per partial weighing range) Maximum of 2 partial weighing ranges $T \leq -\text{Max}$ Temperature range $-10^\circ\text{C} / +40^\circ\text{C}$ In the description number T7305 revision 5 further characteristics are described.
Valid until	26 October 2017
Description and documentation	The instrument is described in the description number T7305 revision 5 and documented in the documentation folder T7305-5, appertaining to this EC type-approval certificate.
Remarks	This revision EC type-approval certificate replaces the earlier versions, except for its documentation folder.

The Notified Body no. 0122
NMi Certin, 7 October 2010


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

Indicator:

- The electronics;
- The mechanical assembly with load cell.

EMC protective measures ATP / ASP / QTP / QSP:

- Ferrite on cable between interface and main board (13 turns);
- Ferrite on cable between load cell and main board (1 turn);
- Ferrite on cable between power plug and main board (1 turn);
- Cable between main board and 2nd display is wrapped with copper tape and is connected to ground (Pole version).

EMC protective measures AHW / AHC / QHW / QHC:

- Ferrite on cable between interface and main board (9 turns);
- Ferrite on cable between load cell cable and main board (1 turn);
- Ferrite on cable between battery and main board (1 turn).

1.2 Essential characteristics

Power supply:

- 230V AC, 50/60 Hz to 9V DC adapter or;
- 100~240V AC, 50/60 Hz to 12V DC;
- Rechargeable lead-acid battery 6V DC.

1.3 Essential shapes

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

- "Exploded view", drawing number T7305-07A;
- "Exploded view pole version", drawing number T7305-08/A;
- "Exploded view A-Series", drawing number T7305-08/B;
- "Exploded view A-Series, pole version", drawing number T7305-08/C.

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:

- "Sealing", drawing number T7305-10A;
- "Sealing", drawing number T7305-10B.

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.

Battery;
 AC/DC-adapter;
 External power supply.

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	Rev.	Remarks
Main board lay-out	T7305-07C	-	2 pages
Main board parts list	T7305-07D	-	-

2.1.2 Essential characteristics

List of devices:

- Determination stability of equilibrium;
- Zero indicator;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Semi-automatic subtractive tare balancing;
- Indication of stable equilibrium;
- Calibration / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Price calculation;
- Check weighing mode;
- Counting device.

When equipped with a printer the following devices may be present:

- Non-weighed articles;
- PLU function.

2.1.3 Conditional parts

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

- RS232C.

2.1.4 Non-essential parts

Display;
 Keyboard.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Load cell assembly	T7305-07E	-	2 pages

2.2.2 Essential characteristics

$e \geq E_{\max}/5000$, or $e_1 \geq E_{\max}/10000$ in case of multi-interval instrument;
 Excitation power supply 5 V DC.

2.2.3 Essential shapes

See drawings: "Load cell assembly", drawing number T7305-07E.

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.