



EC type-approval Certificate

Number **T8646** revision 0

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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

TANITA Corporation
14-2, 1-chome, Maeno-cho, Itabashi-ku
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Japan

Measuring instrument

A Non-automatic weighing instrument
Type : DC-430MA

Further properties are described in the annexes:

- Description T8646 revision 0;
- Documentation folder T8646-1.

Valid until

13 March 2025

Issuing Authority

NMi Certin B.V., Notified Body number 0122
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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 display part;
The scale part.

See block diagram;

Number	Pages	Description	Remarks
8646/0-01	1	Block chart	-

EMI protection measures:

- The A/D board is shielded with a metal cover;
- One ferrite on the cable from the load cell to the analog board;
- One ferrite on the cable from the impedance circuit board to the display board.

1.2 Essential characteristics

Accuracy class	III
Maximum capacity	Max ≤ 270 kg
Verification scale interval	e $\geq 0,1$ kg
Weighing range(s)	Single interval
Maximum number of scale intervals	n ≤ 2700 divisions
Temperature range	+5 °C / +35 °C
Power supply voltage	12 V DC
Application	Intended to be used for weighing patients
Software identification display part	Dc430.9321
Software identification scale part	Wb260.9201

Software:

- The identification number will be displayed after pressing the key sequence:
 - Setting;
 - 00 and enter;
 The software identification of the display part is shown;
- Enter;
- The software identification of the scale part is shown.
- The non-automatic weighing instrument has embedded software.

1.3 Essential shapes

Number	Pages	Description	Remarks
8646/0-02	1	Outline drawing (column display version)	-
8646/0-03	1	Outline drawing (remote display version)	-
8646/0-04	2	Exploded view	-

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

Inside the display part 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. A ring on the level indicator indicates when the maximum tilt is exceeded.

1.5 Conditional characteristics

AC/DC plug-in power supply:

- Manufacture: Cincon Electronics Co., Ltd;
- Model: TR30M120.

1.6 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:

- Impedance circuit board, this board is used as pass through for the digital connection between the analog board and the display board;
- Interface circuit board;
- SD-card circuit board;
- Internal printer.

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

2.1 The display part

2.1.1 Essential parts

Number	Pages	Description	Remarks
8646/0-05	3	Display board	-

2.1.2 Essential characteristics

List of legally relevant functions:

- Access to the scale parameters with a switch on the display board;
- Checking the display;
- Data storage device on an SD-card that complies with OIML R 76 (2006) clause 5.5.3.
- Indications other than primary indications;
- Indication of additional information;
- Determination stability of equilibrium;
- Zero indicator;
- Zero-setting as part of a weighing cycle;
- Initial zero-setting;
- Zero-tracking;
- Preset tare;
- Acting upon significant faults.

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;
- USB (device).

2.1.4 Non-essential parts

Display;
Keyboard.

2.2 The scale part

2.2.1 Essential parts

Number	Pages	Description	Remarks
8646/0-06	2	Analog board	-

Number	Pages	Description	Remarks
8646/0-07	1	Load cell (TLNR-300K-A)	-

2.2.2 Essential characteristics

Characteristics for the load cell:

- $e \geq E_{\max}/3000$;
- Excitation power supply 5 V DC.

List of legally relevant functions:

- Gravity compensation via a switch on the display board;
- Adjustment / set-up mode via a switch on the display board.

2.2.3 Essential shapes

See chapter 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 drawings:

Number	Pages	Description	Remarks
8646/0-08		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.