EC type-approval certificate

Number **T7530** revision 1
Project number 810459

Issued by	NMi Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands
In accordance with	The Council Directive 90/384/EEC on non-automatic weighing instruments.
Applicant	Shinko Denshi CO., Ltd 3-9-11 Yushima, Bunkyo-ku Tokyo 113-0034 Japan
In respect of	A class (II), electronic, single-interval, **non-automatic weighing instrument**. Manufacturer : Shinko Denshi Type : CJ
Characteristics	220 g ≤ Max ≤ 15 kg (or the equivalent in ct) e ≥ 0.01 g (or the equivalent in ct) n ≤ 82000 divisions Temperature range +5 °C / +35 °C In the description number T7530 revision 1 further characteristics are described.
Valid until	10 April 2019
Description and documentation	The instrument is described in the description number T7530 revision 1 and documented in the documentation folder T7530-1, 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, 5 May 2009

C. Oosterman
Head Certification Body

NMi Certin BV
Hugo de Grootplein 1
3314 EG Dordrecht
PO Box 394
3300 AJ Dordrecht, NL
T +31 78 6332332
F +31 78 6332309
certin@nmi.nl

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INSPECTION
RvA I 122

Description

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 1 drawing number 23YE001;
The electronics;
The mechanical assembly with weighing cell.

1.2 Essential characteristics

Power supply: 6 V DC, supplied by:
- an AC/DC mains adapter with an input voltage range of 100 V – 240 V;
- internal batteries.

1.3 Essential shapes

The non-automatic weighing instrument is built according to the drawings:
- View of components, drawing number 23YM003.

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 drawings:
- CJ-220CE~820CE External view, drawing number 23YM001;
- CJ-2200CE~15KCE External view, drawing number 23YM002;

The securing component has to bear either:
- A mark of the manufacturer laid down in a notified body approved quality system (Annex II of the directive 90/384/EEC), or
- An official mark of a Member State of the EEC, or another party to the EEA agreement.

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 the EC Directive (90/384/EEC), if the peripheral equipment is certified to be connected to an EC type-approved non-automatic weighing instrument by a Notified Body appointed to certify non-automatic weighing instruments according to paragraph I of Annex II of the EC directive on Non-Automatic Weighing Instruments.
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 the EC Directive (90/384/EEC) 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;
CJLF circuit board.

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
CJ-DP PCB Parts assignment	23YE003	-	2 pages 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 display board;
- Acting upon significant faults;
- Checking the display;
- Weight unit selection (g, kg, ct);
- Piece counting;
- Percentage mode.

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:
- RS232C.

2.1.4 Non-essential parts

Display;
Keyboard.

2.2 The mechanical assembly with weighing cell

2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Mechanical unit	23YM004		220g ~ 820 g
Tuning fork sensor	23YM006		220g ~ 820 g
Mechanical unit	23YM005		2200 g ~ 15 kg
Tuning fork sensor	23YM007		2200 g ~ 15 kg

2.2.2 Essential characteristics

Characteristics for the available weighing cells:
- For instruments with a Max ≤ 820 g, the maximum capacity of the weighing cell is 900 g;
- For instruments with a Max ≤ 15 kg, the maximum capacity of the weighing cell is 16.5 kg;.

The instrument is equipped with a tuning fork weighing cell (frequency sensing method).

2.2.3 Essential shapes

See drawings:
- Mechanical unit, drawing number 23YM004;
- Mechanical unit, drawing number 23YM005.

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.