

Number **T7942** revision 1
Project number 11219000 /
SO11200983
Page 1 of 4

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 A&D Instruments Ltd.
24 Blacklands Way
Abingdon Business Park Abingdon
Oxford, OX14 1DY
United Kingdom

In respect of A class ^(III), electronic, single-interval, **non-automatic weighing instrument**.
Manufacturer mark/name: A&D
Type : SW-Series

Characteristics $6 \text{ kg} \leq \text{Max} \leq 150 \text{ kg}$
 $e \geq 2 \text{ g}$
 $n \leq 3000$ divisions
Temperature range $-10 \text{ }^\circ\text{C} / +40 \text{ }^\circ\text{C}$
In the description number T7942 revision 1 further characteristics are described.

Valid until 29 September 2021

Description and documentation The instrument is described in the description number T7942 revision 1 and documented in the documentation folder T7942-1, appertaining to this EC type-approval certificate.

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

The Notified Body no. 0122
NMI Certin, 7 November 2011


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

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The designation of NMI Certin BV. as Notified Body can be verified at <http://ec.europa.eu/enterprise/newapproach/nando/>

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMI (see "Regulation objection and appeal against decisions of NMI" www.nmi.nl)

Reproduction of the complete document only is permitted.

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 chart, drawing number 7942/0-01;
The electronics;
The mechanical assembly with load cell.

EMC protection measures:

- The A/D board is shielded with a metal cover;
- A ferrite coil on the power supply cable;
- A ferrite coil on the input/output processing board;
- A ferrite coil on the cable from the calibration board to the main board.

1.2 Essential characteristics

- Power supply: 100 - 240 V AC, 50/60 Hz;
- Internal rechargeable battery 6V DC.

1.3 Essential shapes

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

- Structural chart SW-6KS, SW-15KS, drawing number 7942/0-02;
- Structural chart SW-15KM, SW-30KM, SW-60KM, SW-150KM, drawing number 7942/0-03;
- Structural chart SW-60KL, SW-150KL, drawing number 7942/0-04;
- Structural chart Indicator, drawing number 7942/0-05.

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 7942/0-06, and the load cell cable or the junction box has to be secured.

Inside the cabinet is a calibration lock, located on the load cell connection 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	Rev.	Remarks
Main Board	7942/0-07	-	Layout including part specifications

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 load cell connection board;
- Gravity compensation via a switch on the load cell connection board;
- Acting upon significant faults;
- Checking the display;
- Counting mode;
- Weight unit selection (kg, g).
- Indications other than primary indications.

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:

- RS232C;
- RS422/485;
- Discrete I/O's.

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 SW-6KS, SW-15KS	7942/0-08	-	
Load cell SW-15KM, SW-30KM, SW-60KM, SW-150KM, SW-60KL, SW-150KL	7942/0-09	-	

2.2.2 Essential characteristics

$e \geq E_{\max}/3000$;
 Excitation power supply 5,0 V DC.

2.2.3 Essential shapes

See chapter 2.2.1, essential parts.

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.