



EC type-approval certificate

Number **T7198** revision 0
Project number 703999
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Issued by NMI Certin B.V.
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The Netherlands

Notified Body Number 0122

In accordance with The Council Directive 90/384/EEC on non-automatic weighing instruments.

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

In respect of A class **(III)**, electronic **non-automatic weighing instrument**.
Manufacturer : A&D Instruments Ltd.
Type : AD-6121A

Characteristics Max 150 kg
e = 100 g
n = 1500 divisions
T = - Max
Temperature range +5 °C / +35 °C
In the description number T7198 revision 0 further characteristics are described.

Valid until 20 June 2017

Description and documentation The instrument is described in the description number T7198 revision 0 and documented in the documentation folder T7198-1, appertaining to this EC type-approval certificate.

Dordrecht, 20 June 2007
NMI Certin B.V.

Ing. C. Oosterman
Manager Product Certification

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 the drawing:

- "Block diagram", drawing number 5_AD6121A.

The electronics;

The mechanical assembly with load cell.

1.2 Essential characteristics

Power supply:

- By four type AA penlight batteries; or
- By external AC adapter power supply: 115 / 230 V AC, 50/60 Hz to 7.5 – 9.0 V DC.

1.3 Essential shapes

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

- "Part names and accessories", drawing number 4_AD6121A;
- "AD-6121A Exploded View", drawing number 3_AD6121A.

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 AD-6121A", drawing number 8_AD6121A.

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.

On the bottom is a calibration switch for calibration and gravity compensation, protected by a sealed cover.

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. The level indicator has a sensitivity of at least 2 mm for a tilt of 2/1000.

1.5 Non-essential parts

- Internal batteries;
- 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
Block Diagram	5_AD6121A	--	
Part Arrangement Diagram	7_AD6121A	--	inclusive partslist

2.1.2 Essential characteristics

List of devices:

- Determination stability of equilibrium;
- Indication of stable equilibrium;
- Initial zero-setting;
- Semi-automatic zero-setting (when load < 3 kg) and subtractive tare balancing (load > 3 kg) that operates by the same key;
- Calibration / set-up and gravity compensation mode via the "CAL" switch;
- Checking the display;
- Display direction switch, normal display or upside down.

2.1.3 Conditional parts

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

- RS232C.

2.1.4 Non-essential parts

Display.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Specifications for the Load cell	9_AD6121A	--	

2.2.2 Essential characteristics

$e \geq E_{max}/1630$;
 Excitation power supply 5 V DC.

2.2.3 Essential shapes

Description	Drawing number	Rev.	Remarks
View load cell	10_AD6121A	--	

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.