

Nederlands Meetinstituut

EC type-approval certificate

Number **T6716** revision 0

Project number 408422

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Issued by NMI Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
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, single interval, **non-automatic weighing instrument**.
Manufacturer : A&D
Type : HL-3000...WP

Characteristics Max \leq 3 kg
e \geq 1 g
n \leq 3000 divisions

Valid until 16 February 2015

Description and documentation The instrument is described in the description number T6716 revision 0 and documented in the documentation folder T6716-1, appertaining to this EC type-approval certificate.

Dordrecht, 16 February 2005
NMI Certin B.V.


Ing. C. Oosterman
Manager Product Certification

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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

See drawing "Block diagram (Hardware)", drawing number AND-HLWP-BD-H;

The electronics;
The mechanical assembly with load cell.

EMC protective measures:

- Ferrites:
 - On main PCB at the connection point of the power supply and batteries (3 turns);
 - On cable between main PCB and load cell (3 turns).

1.2 Essential characteristics

Power supply:

- 230 V AC, 50/60 Hz;
- 6 x 1,5V batteries.

1.3 Essential shapes

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

- "Exploded view 1/2", drawing number AND-HLWP-EX-1/2.

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 AND-HLWP-S.

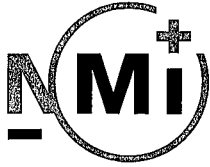
The securing component has to bear either:

- 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 an other party to the EEA agreement.

Inside the cabinet is a calibration lock, located on the main board.

1.4 Conditional parts

The non-automatic weighing instrument is fitted with a leveling 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

- AC/DC-adapter;
- Batteries.

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
PZ+4333	AND-HLWP-PZ+-PCB AND-HLWP-PZ+-PL	- -	Lay-out. Parts list.

2.1.2 Essential characteristics

List of devices:

- Determination stability of equilibrium;
- Zero indicator;
- Semi-automatic zero-setting;
- Automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Indication of stable equilibrium;
- Gravity compensation;
- Calibration / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display.

2.1.3 Non-essential parts

- Display;
- Keyboard.



2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Description	Drawing number	Rev.	Remarks
Exploded view 2/2	AND-HLWP-EX-2/2	-	Load cell assembly.
HL-WP Series load cell specification	AND-HLWP-LC-SP	-	-

2.2.2 Essential characteristics

- $e \geq E_{\max}/5000$;
- Excitation power supply 5 V DC.

2.2.3 Essential shapes

See drawing: "Exploded view 2/2", drawing number AND-HLWP-EX-2/2.

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.