



EU-type examination certificate

Number **T11550** revision 1
Project number 3504442
Page 1 of 1

Issued by NMI Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to
conformity procedures mentioned in Article 13 of Directive 2014/31/EU,
after having established that the measuring instrument meets the
applicable requirements of Directive 2014/31/EU, to:

Manufacturer Adam Equipment Co. Ltd
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom

Authorised
representative AE Adam GmbH
Instenkamp 4
24242 Felde
Germany

Measuring instrument **A Non-automatic weighing instrument**
Type : Highland HCB-M series

Further properties are described in the annexes:
– Description T11550 revision 1;
– Documentation folder T11550-1.

Valid until 2 April 2029

Remark This revision replaces the earlier version, except for its documentation
folder.

Issuing Authority **NMi Certin B.V., Notified Body number 0122**
25 March 2022

Certification Board

NMi Certin B.V.
Thijssseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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

The designation of NMI Certin B.V. as Notified
Body can be verified at
[http://ec.europa.eu/growth/tools-
databases/nando/](http://ec.europa.eu/growth/tools-databases/nando/)

Reproduction of the complete
document only is permitted.

This document is digitally signed
and sealed. The digital signature
can be verified in the blue ribbon
on top of the electronic version of
this certificate.



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 electronics;
The mechanical assembly with load cell.

See block diagram;

Number	Pages	Description	Remarks
11550/0-01	1	Block diagram	-

EMI protection measures:

- Instrument built in a plastic housing coat painted in metallic material;
- Ferrite on the cable from mainboard to the display;
- Ferrite on load cell cable;
- Ferrite on the power cable;
- Ferrite on the RS232 cable.

1.2 Essential characteristics

Accuracy class	II
Maximum capacity	$600\text{ g} \leq \text{Max} \leq 5000\text{ g}$
Verification scale interval	$e \geq 0,1\text{ g}$
Actual scale interval	$e = d$, or $e = 10\text{ d}$
Weighing range(s)	Single interval
Maximum number of scale intervals	$n \leq 10000$ divisions
Tare	$T \leq -\text{Max}$
Temperature range	$15\text{ °C} / 35\text{ °C}$
Power supply voltage	230 V AC 50/60 Hz or 6V Battery
Software identification	2.xx (xx = 00... 99)

The software identification is displayed at start-up.
The non-automatic weighing instrument has embedded software.

1.3 Essential shapes

Number	Pages	Description	Remarks
11550/0-02	1	Exploded view drawing	-

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

Inside the cabinet is an adjustment lock, located on the main board.

1.4 Conditional parts

The instrument may be equipped with the following parts that further process the measurement result without modification under the conditions stated in the table:

Part	Condition(s)	Reference document
Simple recipient printer	CE-mark present	WELMEC 2.10 clause 3.1.3
Printer Data Storage Device	CE-mark present and the part is certified to be connected to a weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU.	WELMEC 2.10 clause 3.1.3

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.

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.

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 displays and cash drawers, provided that:

- They do not present primary data used for purposes mentioned in Directive 2014/31/EU Article 1(2), (a) to (f) unless the (Preliminary observation) in Directive 2014/31/EU Annex I is satisfied;
- They do not lead to an instrument having other essential characteristics than those fixed by this certificate.



Description

Number **T11550** revision 1
Project number 3504442
Page 3 of 4

Other non-essential parts:

- Battery;
- AC/DC plug-in power supply.

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

2.1 The electronics

2.1.1 Essential parts

Number	Pages	Description	Remarks
11550/0-03	3	Main board drawing	Including parts list

2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicating;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Adjustment / set-up mode via a switch on the main board;
- Checking the display;
- Extended indicating, resolution 1/10 e during pressing a key.

2.1.3 Non-essential parts

Display;
Keyboard.

2.1.4 Non-essential characteristics

List of legally non-relevant functions:

- Counting mode;
- Percentage mode;
- Printing.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Number	Pages	Description	Remarks
11550/0-04	2	Load cell specification	-

2.2.2 Essential characteristics

$e \geq E_{\max}/7500$; Excitation voltage 5 V DC.

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
11550/0-05	1	Sealing photo	-

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfil the requirements of Directive 2014/31/EU Annex III clause 1.