

Issued by

NMi Certin B.V.,
designated and notified by the Netherlands to perform tasks with respect to conformity modules 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

A&D Instruments Ltd
24 26 Blacklands Way
Abingdon Oxfordshire
OX14 1DY United Kingdom

Measuring instrument **A Non-automatic weighing instrument**
Type : GX-A series

Further properties are described in the annexes:
– Description T11827 revision 0;
– Documentation folder T11827-1.

Valid until

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Issuing Authority

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Certification Board

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

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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, shall not be in conflict with the legislation.

1.1 Essential parts

The electronics;
 The mechanical assembly with force sensor.

See block diagram:

Number	Pages	Description	Remarks
11827/0-01	1	Hardware block diagram	-

EMI protection measures:

- A/D board shielded with metal cover.

1.2 Essential characteristics

Accuracy class	$\textcircled{\text{II}}$
Maximum capacity	$122 \text{ g} \leq \text{Max} \leq 6200 \text{ g}$ $610 \text{ ct} \leq \text{Max} \leq 31000 \text{ ct}$
Verification scale interval	$e \geq 0,01 \text{ g}$ $e \geq 0,1 \text{ ct}$
Actual scale interval	$e = 10 \text{ d}$
Weighing range	Single interval
Maximum number of scale intervals	$n \leq 62000$
Tare	$T \leq -\text{Max}$
Temperature range	$+10 \text{ }^\circ\text{C} / +30 \text{ }^\circ\text{C}$
Power supply voltage	100 – 240 V AC 50/60 Hz
Software identification	Version number P-1.XXX (X = 0... 9)

The software identification is displayed at start-up.

The non-automatic weighing instrument has embedded software.

1.3 Essential shapes

Number	Pages	Description	Remarks
11827/0-02	4	Outline and dimension drawings	-
11827/0-03	6	Exploded views	-

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 non-automatic weighing instrument may be equipped with peripheral equipment which is used for the applications listed in Article 1(2), (a) to (f) of Directive 2014/31/EU, provided that the peripheral equipment is certified to be connected to a non-automatic weighing instrument by a Notified Body responsible for type examination under Directive 2014/31/EU, or, that the equipment and the use of the equipment complies with the requirements of WELMEC 2.5 Issue 2 clause 2.2.

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:

- RS232C;
- USB.

Power supply:

- AC/DC plug-in power supply:
 - Brand: Unifive Technology Co., Ltd.
 - Model: UUX310-1210.

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

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
11827/0-04	6	Electronics boards	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 weighing;
- Adjustment / set-up mode via a switch on the main board;
- Automatic span adjustment with internal calibration mass, operational:
 - when $\Delta t \leq 3$ °C.
- Semi-automatic span adjustment with internal calibration mass;
- Checking the display;
- Hook for weighing under the instrument;
- Weight unit selection (mg, g, ct, ozt);
- Linearity compensation: the linearity can be compensated to a maximum of 5 points;
- Weighing unstable samples.

2.1.3 Non-essential parts

Display;
 keyboard.

2.1.4 Non-essential characteristics

List of non-legally relevant functions:

- Piece counting;
- Percentage weighing;
- Density mode.

2.2 The mechanical assembly with force sensor

2.2.1 Essential parts

Number	Pages	Description	Remarks
11827/0-05	1	Force sensor	-

2.2.2 Essential shapes

See 2.2.1

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 drawing:

Number	Pages	Description	Remarks
11827/0-06	1	Sealing	-

4 Conditions for conformity assessment

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