

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.

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Issuing Authority

**NMi Certin B.V., Notified Body number 0122**  
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Certification Board

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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	$100 - 240 \text{ V AC } 50/60 \text{ Hz}$
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.