EU-type examination certificate

Number **T12056** revision 0
Project number 2551153

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-xxxA

Further properties are described in the annexes:
– Description T12056 revision 0;
– Documentation folder T12056-1.

Valid until

28 May 2031

Issuing Authority

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

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Description

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
12056/0-01	1	Hardware block diagram	-

EMI protection measures:
- A/D board shielded with metal cover.

1.2 Essential characteristics

Accuracy class	(I)
Maximum capacity	122 g ≤ Max ≤ 320 g 610 ct ≤ Max ≤ 1600 ct
Verification scale interval	e ≥ 0,001 g e ≥ 0,01 ct
Actual scale interval	e = 10 d
Weighing range	Single interval
Maximum number of scale intervals	n ≤ 320000
Temperature range	+10 °C / +30 °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
12056/0-02	2	Outline and dimensions	-
12056/0-03	8	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. 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.

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
12056/0-04	6	Electronics boards	-

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
  - daily at maximum 3 set times
  - at selectable intervals (0,5h – 12h)
- Semi-automatic span adjustment with internal calibration mass;
- Acting upon significant faults;
- Checking the display;
- Weight unit selection (mg, g, ozt, ct).

2.1.3 Non-essential parts

Display;
keyboard.

2.1.4 Non-essential characteristics

List of non-legally relevant functions:
- Counting mode;
- Percentage weighing;
- Density mode;
- Statistical calculation mode;
- Flow mode.

2.2 The mechanical assembly with force sensor

2.2.1 Essential parts

Number	Pages	Description	Remarks
12056/0-05	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 drawings:

Number	Pages	Description	Remarks
12056/0-06	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.