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designated and notified by the Netherlands to perform tasks with respect to
conformity modules mentioned in article 9 of Directive 2009/23/EC, after
having established that the measuring instrument meets the applicable
requirements of Directive 2009/23/EC, to:

Manufacturer A&D Instruments Ltd.
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Measuring instrument **A Non-automatic weighing instrument**
Type : GH series

Further properties are described in the annexes:
– Description T6919 revision 1;
– Documentation folder T6919-1.

Valid until 24 February 2026

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

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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

See drawing:

Number	Pages	Description	Remarks
GH-003	1	Block Diagram	-

The electronics;
 The mechanical assembly with weighing cell.

EMI protection measures:

- A/D board shielded with metal cover;
- Inside of case covered with conductive coating;
- Weighing cell located in metal case;
- Electronics (except display board) covered by metal case;
- Copper tape over cracks of all metal cases;
- Ferrite on printer cable (near the non-automatic weighing instrument).

1.2 Essential characteristics

Accuracy class	Ⓘ
Maximum capacity	$50 \text{ g} \leq \text{Max} \leq 320 \text{ g}$ or $250 \text{ ct} \leq \text{Max} \leq 1600 \text{ ct}$
Verification scale interval	$e \geq 1 \text{ mg}$ or $e \geq 5 \text{ mct}$
Actual scale interval	$d = e$ or $d = 1/10 e$ or $d = 1/100 e$
Maximum number of scale intervals (one weighing range)	$n \leq 320000$ divisions
Temperature range	$+10 \text{ °C} / +30 \text{ °C}$
Power supply voltage	12 V DC

1.3 Essential shapes

Number	Pages	Description	Remarks
GH-001	1	Type	-
GH-007B	1	Exploded View	-

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) of Directive 2009/23/EC, 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 2009/23/EC, 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 may be connected to a printer, provided that the printer add brackets around the auxiliary digits.

The non-automatic weighing instrument is fitted with a levelling device and a level indicator that shows that the maximum tilt is being exceeded.

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 display's and cash drawers, provided that:

- They do not present primary data used for purposes mentioned in article 1(2)(a) of Directive 2009/23/EC unless the "preliminary observations" in Annex 1 of this directive is satisfied;
- They do not lead to an instrument having other essential characteristics than those fixed by this type-approval document.

Other non-essential parts:

- AC/DC-adapter or external power supply.



Description

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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
GH-004B	1	Board Lay out	Including parts list
GH-004C	1	Board Lay out	Including parts list
GH-004D	1	A/D Board Lay out	Including parts list

2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero-tracking;
- Combined initial zero-setting and subtractive tare balancing;
- Combined semi-automatic zero-setting and subtractive tare balancing;
- Indication of stable equilibrium;
- Adjustment / set-up mode via switch on main board;
- Automatic span adjustment with internal calibration mass operational after switch on and after a temperature change;
- Semi-automatic span adjustment with internal calibration mass;
- Semi-automatic span adjustment with external calibration mass;
- Acting upon significant faults;
- Checking the display;
- Underhook weighing;
- Auxiliary indicating with differentiated scale interval;
- Weight unit selection (g, mg, ct);
- Counting (PCS);
- Percentage (%);
- Density determination;
- Indications other than primary indications;
- Indication of additional information.

2.1.3 Conditional parts

The interface section is located on separate interface boards. The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:

- RS232C;
- Input for external switch;
- USB interface;
- Ethernet interface.

2.1.4 Non-essential parts

Display;
 Keyboard.

2.2 The mechanical assembly with weighing cell

2.2.1 Essential parts

Number	Pages	Description	Remarks
GH-007A	1	Exploded View (Weighing cell)	-

2.2.2 Essential characteristics

Maximum capacity 320 g;
 e = 1 mg.

2.2.3 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
GH-002	1	Markings and Sealing	-

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the non-automatic weighing instrument fulfill the requirements of article 1 of Annex IV of Directive 2009/23/EC.