

Issued by NMI Certin B.V.,  
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.  
24 Blacklands Way  
Abingdon Business Park  
Abingdon, Oxfordshire  
OX14 1DY United Kingdom

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.

Issuing Authority **NMI Certin B.V., Notified Body number 0122**  
24 February 2016



C. Oosterman  
Head Certification Board

**NMI Certin B.V.**  
Hugo de Grootplein 1  
3314 EG Dordrecht  
The Netherlands  
T +31 78 6332332  
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/enterprise/newapproach/nando/](http://ec.europa.eu/enterprise/newapproach/nando/)

Parties concerned can lodge  
objection against this decision,  
within six weeks after the date of  
submission, to the general manager  
of NMI (see [www.nmi.nl](http://www.nmi.nl)).

Reproduction of the complete  
document only is permitted.

## 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

Number **T6919** revision 1  
Project number SO16200617  
Page 3 of 4

## 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.