



EC type-approval Certificate

Number **T6351** revision 2
Project number SO13203378
Page 1 of 1

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 Ishida Co., Ltd.
44 Sanno-cho,
Shogoin, Sakyo-ku,
Kyoto, 606-8392
Japan

Measuring instrument **Non-automatic weighing instrument**
Type : iG-Series

Further properties are described in the annexes:
– Description T6351 revision 2;
– Documentation folder T6351-2.

Valid until 13 October 2023

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

Issuing Authority **NMI Certin B.V., Notified Body number 0122**
13 October 2013


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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 drawings:

- "iGX (VFD) Block Diagram", drawing number BD-EMC-001;
- "iGB (LCD) Block Diagram", drawing number BD-EMC-002.

The electronics;

The mechanical assembly with load cell.

EMI protection measures:

- See drawing "iGX (VFD) Block Diagram", drawing number BD-EMC-001;
- See drawing "iGB (LCD) Block Diagram", drawing number BD-EMC-002.

1.2 Essential characteristics

Accuracy class	III	
Maximum capacity	$60 \text{ kg} \leq \text{Max} \leq 150 \text{ kg}$	
Verification scale interval	$e \geq 0,02 \text{ kg}$	
Maximum number of scale intervals	$n \leq 3000 \text{ divisions}$	
Temperature range	$-5 \text{ }^\circ\text{C} / +40 \text{ }^\circ\text{C}$	
Tare	$T \leq -\text{Max}$	
Weighing range	Single interval	
Power supply voltage	iGX	230 V AC, 50 Hz
	iGB	2,4 – 3 V DC by battery or 4 V DC by external power supply

1.3 Essential shapes

The non-automatic weighing instrument is built according to drawings:

- "Exterior drawing for IG", drawing number EX-IG-001;
- "Disassembly drawing for IGB", drawing number DA-IG-001;
- "Disassembly drawing for IGX", drawing number DA-IG-002.

The descriptive markings 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 is fitted with a levelling device and a level indicator, unless the instrument is installed in a fixed position. The level indicator has a sensitivity of at least 2 mm for a tilt of 2/1000.

1.5 Non-essential parts

- Battery;
- AC/DC-adapter;
- External power supply.

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
900-2197-01	1	IGX Main board (PS-016)	Drawing including parts list
900-2196-07	1	IGB Main board (PS-018)	Drawing including parts list

2.1.2 Essential characteristics

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicator;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Preset tare;
- Indication of stable equilibrium (optional);
- Adjustment / set-up mode via a switch on the main board;
- Checking the display;
- Check weighing mode;
- Indications other than primary indications;
- Indication of additional information;
- PLU function.

2.1.3 Conditional parts

Number	Pages	Description	Remarks
IG-CN-001	1	Connector list (PS-019)	--

2.1.4 Non-essential parts

Display;
 Keyboard.

2.2 The mechanical assembly with loadcell

2.2.1 Essential parts

Number	Pages	Description	Remarks
DM-IG-002	1	Dimension of loadcell	Celtron model LOC-ISS10; or Zhongyuan Electrical Measuring Instruments model L6G2-C3

2.2.2 Essential characteristics

$e \geq E_{\max}/6000$.

Excitation power supply 15V DC.

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:

- "Sealing Method", number S-IG-001;
- "Sealing Method (LEAD)", number S-IG-002.

4 Conditions for conformity assessment

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