EC type-approval Certificate

Number **T8795** revision 1
Project number SO16201106

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	Fidelity Measurement Company Ltd. 6F No.33 Dalian 4th Street Taoyuan City 33043 Taiwan
Measuring instrument	A **Non-automatic weighing instrument** Type : G2
	Further properties are described in the annexes: – Description T8795 revision 1; – Documentation folder T8795-1.
Valid until	14 March 2026
Remarks	This revision replaces the earlier version, excluding for its documentation folder.

Issuing Authority **NMi Certin B.V., Notified Body number 0122**
15 April 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

INSPECTION
RvA I 122

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 load cell.

See block diagram;

Number	Pages	Description	Remarks
8795/0-01	1	Block diagram	-

EMI protection measures:
- Ferrite on the cable from main board to the back display;
- Ferrite on the cable from main board to the load cell;
- Ferrites on the cables from main board to each RS232 input;
- Ferrite on the cable from main board to the power input.

1.2 Essential characteristics

Accuracy class	(III)
Weighing range(s)	Single interval Multi-interval Multiple range
Maximum number of scale intervals (one weighing range)	n ≤ 7500 divisions
Maximum number of scale intervals (multi-interval)	n ≤ 7500 divisions (per partial weighing range)
Maximum number of partial weighing ranges	2
Maximum number of scale intervals (multiple range)	n ≤ 7500 divisions (per weighing range)
Maximum number of weighing ranges	2
Tare	T ≤ -Max for instruments with one weighing range T ≤ -Max_1 for multi-interval instruments
Temperature range	-10 °C / +40 °C
Power supply voltage	12 V DC supplied by a plug-in power supply of 100 – 240 V AC 50/60 Hz, or by 6 V built-in battery
Software identification	Version number: CE002

Software:
- The identification number will be displayed at start-up;
- The non-automatic weighing instrument has embedded software.

1.3 Essential shapes

Number	Pages	Description	Remarks
8795/0-02	1	General appearance	-
8795/0-03	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, 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.

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:
- Battery.

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
8795/0-04	1	Main board lay out	-
8795/0-05	2	Main board parts list	-

2.1.2 Essential characteristics

Load cell excitation voltage	5 V DC
Minimum input voltage per verification scale interval	1 μV
Minimum load cell resistance	87 Ω
Maximum load cell resistance	1050 Ω
Fraction of the maximum permissible error	0,5
Load cell connection	6-wire (remote sensing)
Maximum value of the cable length per cross wire section between the indicator and the junction box or load cells	No special cable length

List of legally relevant functions:
- Determination stability of equilibrium;
- Zero indicating;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Preset tare;
- Gravity compensation;
- Adjustment / set-up mode via a switch on the main board;
- The adjustment mode is secured with a password, this software seal uses an event counter that contains a number that will be incremented each time any parameter changes or adjustment is made and saved;
- Acting upon significant faults;
- Checking the display;
- Check weighing mode;
- Piece counting mode;
- Peak mode;
- Weighing unstable samples (Hold mode);
- Weight unit selection (kg, g);
- Extended indicating, resolution 1/10 e for a period not exceeding 5 seconds after a manual command;
- Memory storage.

2.1.3 Conditional parts

AC/DC plug-in power supply (brand: Xing Yuan Electronics, type: XY-1201000-Z)

The non-automatic weighing instrument may be equipped with one or more of the following protective interfaces that have not to be secured:
- RS232.

2.1.4 Non-essential parts

Display;
Keyboard.

2.2 The mechanical assembly with load cell

2.2.1 Essential parts

Any load cell(s) may be used under this EC type-approval certificate for instruments as described in WELMEC 2.4 Issue 2, provided the following conditions are met:
- There is a respective certificate (EN45501) or an OIML Certificate of Conformity (R 60) issued for the load cell by a Notified Body responsible for type examination under Directive 2009/23/EC.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules (WELMEC 2 Issue 5, 11), and any particular installation requirements. A load cell marked **NH** is allowed only if humidity testing to EN45501 has been conducted on this load cell.
- The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in the above WELMEC 2 document, at the time of putting into use.
- The load transmission must conform to one of the examples shown in WELMEC 2.4 Issue 2.

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
8795/0-06	1	Sealing	-

The event counter value is displayed during start-up.

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.

The inscriptions contain the value of the event counter.

The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in WELMEC 2 Issue 5, 11, at the time of putting into use.