

Issued by NMI Certin B.V.

In accordance with WELMEC 8.8 Issue 2, Paragraph 8.1 of EN 45501:1992/AC:1993, WELMEC 2.1 Issue 4, OIML R 76-1 (2006).

Producer Hiweigh Technologies Limited
No. 1, Haiqiao Road, Huinan Town
Pudong District
201301 Shanghai
P.R. China

Measuring instrument An **Indicator**, tested as a part of a weighing instrument.

Brand : HIWEIGH
Designation : X3ARM, X3RM, X3WRM, X5RM,
X1RM, X3AGM, X3GM, X3WGM,
X5GM, X1GM

Further properties are described in the annexes:

- Description TC8639 revision 0;
- Documentation folder TC8639-1.

An overview of performed tests is given in the annex:

- Description TC8639 revision 0.

Issuing Authority **NMI Certin B.V.**
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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

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1 General information about the indicator

All properties of the indicator, whether mentioned or not, shall not be in conflict with the standard mentioned in the certificate.

This certificate is the positive result of the applied voluntary, modular approach, for a component of a measuring instrument, as described in WELMEC 8.8. The complete measuring system must be covered by an EC type-approval Certificate.

1.1 Essential parts

Number	Pages	Description	Remarks
8639/0-01	1	Software block diagram	-
8639/0-02	1	Hardware block diagram	-
8639/0-03	1	System interface	-
8639/0-04	2	Main board	Including parts list

EMI protection measures:

- The A/D part on the main board is shielded with a metal cover;
- Ferrite bead on the cable between main board and load cell connector.

1.2 Essential characteristics

Accuracy class	III IIII
Maximum number of verification scale intervals	3000
Load cell excitation voltage	5 V DC
Minimum input voltage per verification scale interval	1 μ V
Minimum load cell resistance	87 Ω
Maximum load cell resistance	1220 Ω
Fraction of the maximum permissible error	0,5
Load cell connection	4-wire
Maximum value of the cable length per cross wire section between the indicator and the junction box or load cells	The load cells are connected directly without junction box
Weighing range	Single interval
Temperature range	-10 °C / +40 °C
Power supply voltage	7,5 V DC supplied by an AC/DC adapter or 6 V DC supplied by a battery
Software identification	Version number: VEr21.3



Description

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Software:

- The identification number will be displayed at start-up;
- The indicator has embedded software.

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicator;
- 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;
- Acting upon significant faults;
- Checking the display;
- Extended indicating, resolution 1/10 e during pressing a key.

1.3 Essential shapes

The indicator is built according to drawings:

Number	Pages	Description	Remarks
8639/0-05	1	Exploded view X3R(G)M	-
8639/0-06	1	Exploded view X3AR(G)M	-
8639/0-07	1	Exploded view X1R(G)M	-
8639/0-08	1	Exploded view X3WR(G)M	-
8639/0-09	1	Exploded view X5R(G)M	-

The descriptive markings plate is secured against removal by sealing or will be destroyed when removed and contains at least the following information:

- This certificate number TC8639;
- Producers name or mark.

Inside the cabinet is an adjustment lock, located on the main board.

1.4 Conditional parts

The indicator may be equipped with one or more of the following protective interfaces that have not to be secured:

- RS232.

1.5 Non-essential parts

Display;
Keyboard;
Battery.

2 Seals

To secure components that may not be dismantled or adjusted by the user, the indicator has to be secured in a suitable manner on the locations indicated in the drawings:

Number	Pages	Description	Remarks
8639/0-10	1	Sealing X3R(G)M	-
8639/0-11	1	Sealing X3AR(G)M	-
8639/0-12	1	Sealing X1R(G)M	-
8639/0-13	1	Sealing X3WR(G)M	-
8639/0-14	1	Sealing X5R(G)M	-

The connecting cable of the load cell or the junction box is provided with possibility to seal.

3 Conditions for conformity assessment

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 Section 11, at the time of putting into use.

Other parties may use this Evaluation Certificate only with the written permission of the producer.

4 Reports

An overview of performed tests is given in the reports:

- No. NMI-12200515-01 dated 12 March 2014 that includes 48 pages;
- No. NMI-12200515-02 dated 12 March 2014 that includes 12 pages.

A report can be a test report, an evaluation report, a type evaluation report and/or a pattern evaluation report.