

Issued by NMI Certin B.V.

In accordance with WELMEC 8.8 Issue 2, WELMEC 2.1 Issue 4, EN 45501:2015, OIML R 76-1 (2006).

Producer Hottinger Baldwin Messtechnik GmbH
Im Tiefen See 45
D-64293 Darmstadt
Germany

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

Type : WE2107, WE2107M

Further properties are described in the annexes:

- Description TC7339 revision 2;
- Documentation folder TC7339-2.

An overview of performed tests is given in the annex:

- Description TC7339 revision 2.

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

Issuing Authority **NMI Certin B.V.**
13 February 2018



C. Oosterman
Head Certification Board

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 or an EU-type examination certificate.

1.1 Essential parts

Number	Pages	Description	Remarks
7339/2-01	4	Board WE2107 with RS232 BOM list	-
7339/2-02	3	Board WE2107 with RS485 BOM list	-

EMI protection measures:

- The A/D board is shielded with a metal cover.

1.2 Essential characteristics

Accuracy class	III	IIII
Weighing range(s)	Single interval Multi-interval Multiple range	
Maximum number of scale intervals (one weighing range)	$n \leq 6000$ divisions	$n \leq 1000$
Maximum number of scale intervals (multi-interval)	$n \leq 2000$ divisions (per partial weighing range)	-
Maximum number of scale intervals (multiple range)	$n \leq 3000$ divisions (per weighing range)	-
Load cell excitation voltage	5 V DC	
Minimum input voltage per verification scale interval	0,6 μ V	
Minimum load cell resistance	60 Ω	

Maximum load cell resistance	4000 Ω
Fraction of the maximum permissible error	0,5
Load cell connection	4-wire 6-wire (remote sensing)
Maximum value of the cable length per cross wire section between the indicator and the junction box or load cells	206 m/mm ² In case a 4-wire connection is used the load cells are connected directly without junction box -
Temperature range	-10 °C / +40 °C
Power supply voltage	12 - 30 V DC (not suitable for a road vehicle power supply)
Software identification	Version number:P7x (x is a number between 2 and 9 and represents the non-legally relevant software)

Software:

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

List of legally relevant functions:

- Determination stability of equilibrium;
- Indication of stable equilibrium;
- Zero indicating;
- Initial zero-setting;
- Zero-tracking;
- Combined semi-automatic zero-setting and semi-automatic subtractive tare balancing;
- Preset tare;
- Gravity compensation;
- Adjustment / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Weight unit selection (t, kg, g);
- Linearity compensation: the linearity can be compensated to a maximum of 4 points for each connected platform.

When equipped with a printer the following legally relevant functions may be present:

- Memory storage.



Description

Number **TC7339** revision 2
Project number 1901850
Page 3 of 4

1.3 Essential shapes

Number	Pages	Description	Remarks
7339/2-03	2	WE2107M	-
7339/2-04	2	WE2107	-

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 TC7339;
- 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:

- RS232C;
- RS485;
- Digital I/O;
- Analog output.

1.5 Conditional characteristics

Set points;
Indication of selected set point(s).

1.6 Non-essential parts

Display;
Keyboard.

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
7339/2-05	2	Sealing WE2107	-

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, 2015 clause 10 at the time of putting into use.

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

4 Reports

An overview of performed tests is given in the reports:

- No. NMI-706068-A dated 21 December 2007 that includes 31 pages;
- No. NMI-706068-B dated 21 December 2007 that includes 21 pages;
- No. NMI-706068-C dated 21 December 2007 that includes 18 pages;
- No. NMI-706068-D dated 21 December 2007 that includes 18 pages;
- No. NMI-14200387-01 dated 12 March 2015 that includes 23 pages;
- No. NMI-1901850-01 dated 12 February 2018 that includes 7 pages.

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