Evaluation Certificate

Number **TC11569** revision 2
Project number 3896549

Issued by	NMi Certin B.V.
In accordance with	WELMEC 8.8 2017, EN 45501:2015, OIML R 76-1 (2006)
Producer	Rice Lake Weighing Systems 230 West Coleman Street Rice Lake, WI54868 United States of America
Measuring instrument	An **Indicator**, tested as a part of a weighing instrument. Type : CW90-A, CW90-E, CW90X-A, CW90X-E Further properties are described in the annexes: - Description TC11569 revision 2; - Documentation folder TC11569-2. An overview of performed tests is given in the annex: - Description TC11569 revision 2.
Initially issued	14 March 2019
Remark	This revision replaces the earlier versions, except for its documentation folder.

Issuing Authority

NMi Certin B.V.
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Certification Board

NMi Certin B.V.
Thijsseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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 instrument must be covered by relevant metrological certification that is valid in the country where the instrument is put into use.

1.1 Essential parts

Number	Pages	Description	Remarks
11569/0-01	3	Main board	Including parts list

EMI protection measures:
- The indicator is built in a metal enclosure.

1.2 Essential characteristics

Accuracy class	(III) or (IIII)
Weighing range	Single interval
Maximum number of scale intervals	$n \leq 10000$
Load cell excitation voltage	5 V DC
Minimum signal input voltage	U_{min} = 0 mV
Minimum input voltage per verification scale interval	0,85 µV
Minimum load cell resistance	43,75 Ω
Maximum load cell resistance	2000 Ω
Fraction of the maximum permissible error	0,5
Load cell interface	6-wire with sense technology, may be configured as 4-wire
Maximum value of the cable length per cross wire section between the indicator and the junction box or load cells	276 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	100 – 240 V AC 50/60 Hz

Application	Can be used for direct sales to the public
Software identification	Version number: LR V1.xx or E1.xx Version number: LR V2.xx or E1.xx.yy (xx= 00…99, y= 00…99)

Software:
- The identification number will be displayed during start-up or after pressing the key sequence:
  - "MENU" → "AUDIT".
- The indicator has embedded software.

List of legally relevant functions:
- Determination stability of equilibrium;
- Zero indicating;
- Semi-automatic zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Preset tare, if not used for direct sales to the public;
- Adjustment / set-up mode via a switch on the main board or the adjustment mode is secured with a password, and sealed with an event counter that contains a number that will be incremented each time any parameter changes or adjustment is made and saved;
- Checking the display;
- Linearity compensation: the linearity can be compensated to a maximum of 5 points;
- Accumulation function, the totals can be seen by pushing the 'Units' button;
- Weight unit selection (kg, g), not available when accumulation function is used;
- Extended indicating, resolution 1/10 e for a period not exceeding 5 seconds after a manual command;
- Gravity compensation.

1.3 Essential shapes

Number	Pages	Description	Remarks
11569/0-02	1	General look	-
11569/0-03	1	Exploded view	-

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 TC11569;
- The event counter value when software sealing is used;
- Producers name or mark;
- "Not be used for direct sales to the public", for instruments with the preset tare function enabled.

1.4 Conditional parts

Number	Pages	Description	Remarks
11569/0-04	2	Power supply board specification sheet	-

The indicator may be equipped with one or more of the following protective interfaces that have not to be secured:
- RS232;
- 20mA Current Loop;
- Ethernet;
- WLAN (Wi-Fi);
- USB device;
- Fiber optic;
- Digital I/O.

1.5 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
11569/1-01	2	Sealing	-

The indicator can alternatively be secured with software sealing with a password and event counter. For instruments with software sealing the event counter value can be displayed by pressing the key sequence:
- “MENU” → “AUDIT”.

The current event counter value matches the counter value mentioned in the inscriptions.

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

Inside the cabinet is an adjustment lock, located on the main board. This adjustment lock has to be in the off position.

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 EN 45501:2015 clause F.4 at the time of putting into use.

For instruments with software sealing, the inscriptions contain the value of the event counter at the time of conformity assessment.

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

This instrument must be installed in a situation where the risk of a significant influence of surges is not expected.

4 Reports

An overview of performed tests is given in the evaluation report ER11569 revision 2.