

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).

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

Type : AD-4329A

Further properties are described in the annexes:

- Description TC11077 revision 0;
- Documentation folder TC11077-1.

An overview of performed tests is given in the annex:

- Description TC11077 revision 0.

Issuing Authority

NMI Certin B.V.

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Description

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Project number 1900976
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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 or an EU-type examination certificate.

1.1 Essential parts

Number	Pages	Description	Remarks
11077/0-01	1	Block diagram	-
11077/0-02	2	Layout main board	Including parts list
11077/0-03	2	Layout load cell board	Including parts list

EMI protection measures:

- The load cell board is shielded with a metal cover;
- Ferrite on the cable between load cell plug and main board.

1.2 Essential characteristics

Accuracy class	Ⓜ or ⓂⓂ
Weighing range(s)	Single interval
Maximum number of scale intervals	$n \leq 10000$ divisions
Load cell excitation voltage	5 V DC
Minimum input voltage per verification scale interval	0,5 μ V
Minimum load cell resistance	42 Ω
Maximum load cell resistance	3000 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
Temperature range	-10 °C / +40 °C
Power supply voltage	100 – 240 V AC 50/60 Hz
Software identification	Version number: r1xx (xx is a number between 00 and 99 and represents the non-legally relevant software)

Software:

- The identification number will be displayed after pressing the key sequence:
 - With the indicator turned off, press and hold the MODE key, press the ON/OFF key, then press the MODE key again;
- The indicator has embedded software.

List of legally relevant functions

- Determination stability of equilibrium;
- Zero indicating;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare weighing;
- Preset tare;
- Gravity compensation;
- Adjustment / set-up mode via a button on the display board;
- Acting upon significant faults;



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- Checking the display;
- Weight unit selection (t, kg);
- Linearity compensation: the linearity can be compensated to a maximum of three points.

1.3 Essential shapes

Number	Pages	Description	Remarks
11077/0-04	1	External view	-
11077/0-05	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 TC11077;
- Producers name or mark.

On the front display is an adjustment button, located behind the sealing.

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;
- RS422 / RS485;
- BCD output;
- Relay outputs;
- Analog 4-20mA output;
- Digital inputs;
- Current loop output.

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
11077/0-06	1	Sealing	-

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 Evaluation Certificate only with the written permission of the producer.

4 Reports

An overview of performed tests is given in the report:

- No. NMI-1900976-01 dated 3 July 2017 that includes 50 pages.

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