

Evaluation Certificate

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	Issued by	NMi Certin B.V.		
+	In accordance with	WELMEC 8.8 Issue 2, WELM	1EC 2.1 Issue 4, EN 45501:2015,	OIML R 76-1 (2006).
	Producer	Rinstrum Pty Ltd. 41 Success Street Acacia Ridge QLD 4110 Australia		
	Measuring instrument	An Indicator, tested as a part of a weighing instrument.		
		Туре	: C5xx series (xx= 0099), WE	2111
		Producer`s mark or name	: Rinstrum, HBM	
		 Further properties are desc Description TC11766 re Documentation folder An overview of performed Description TC11766 re 	evision 0; TC11766-1. tests is given in the annex:	
	Issuing Authority	NMi Certin B.V. 23 July 2020 Certification Board		
	NMi Certin B.V. Thijsseweg 11 2629 JA Delft The Netherlands T +31 88 6362332 certin@nmi.nl www.nmi.nl	This document is issued under the provision no liability is accepted and that the producer indemnify third-party liability.		INSPECTION RVA 122



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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.

Number	Pages	Description	Remarks
11766/0-01	1	Block diagram	-
11766/0-02	8	Mechanical overviews	-
11766/0-03	9	Exploded views	-
11766/0-04	2	Main processor board layout	-
11766/0-05	2	Main processor board parts list	-
11766/0-06	2	Connector/driver board layout	-
11766/0-07	6	Connector/driver board parts list	-

1.1 Essential parts

EMI protection measures:

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

1.2 Essential characteristics

Accuracy class		
Weighing ranges	Single interval Multi-interval Multiple range	
Maximum number of scale intervals (one weighing range)	n ≤ 10000	
Maximum number of scale intervals (multi-interval)	n ≤ 10000 (per partial weighing range)	
Maximum number of partial weighing ranges	2	
Maximum number of scale intervals (multiple range)	n ≤ 10000 (per weighing range)	
Maximum number of weighing ranges	2	



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Load cell excitation voltage	5 V DC
Minimum signal input voltage	U _{min} = 0,001 mV
Minimum input voltage per verification scale interval	0,5 μV
Minimum load cell resistance	21 Ω
Maximum load cell resistance	5000 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	$\begin{array}{l} 755 \mbox{ m/mm}^2 \mbox{ for } n \leq 3000 \\ 378 \mbox{ m/mm}^2 \mbox{ for } n \leq 6000 \\ 227 \mbox{ m/mm}^2 \mbox{ for } n \leq 10000 \\ \mbox{ In case a 4-wire connection is used the load cells are connected directly without junction box } \end{array}$
Temperature range	-10 °C / +40 °C
Power supply voltage	100 - 240 V AC 50/60 Hz, or 12 – 24 V DC supplied by an AC/DC plug-in power supply or by a road vehicle power supply
Electromagnetic environment class	E3
Software identification	Version number: v1.0x (x= 09)

Software:

- The identification number will be displayed by holding the 'select' key and pressing it until 'ALIBI' is displayed then pressing 'OK';
- The indicator has embedded software.

List of legally relevant functions:

- Determination stability of equilibrium;
- Indication of stable equilibrium;
- Zero indicating;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive or additive tare balancing;
- Preset tare;
- Gravity compensation;
- Gross/net indicator;
- Adjustment / set-up mode via a switch on the main board;
- Acting upon significant faults;
- Checking the display;
- Extended indicating, resolution 1/10 e for a period not exceeding 5 seconds after a manual command;
- Data Storage Device that complies with OIML R 76 (2006) clause 5.5.3 and EN 45501:2015 clause 5.5.3.



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1.3 Essential shapes

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 TC11766;
- Producer`s name or mark.

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

1.4 Conditional parts

Number	Pages	Description	Remarks
11766/0-08	3	AC power module exploded view and mechanical overview	-
11766/0-09	1	AC power module board layout	-
11766/0-10	1	AC power module parts list	-

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

- RS232;
- RS485;
- USB host;
- USB device;
- Ethernet;
- I/O module;
- RINLINK (optical serial connection).

1.5 Non-essential parts

Display; Keyboard.

2 Seals

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

Number	Pages	Description	Remarks
11766/0-11	11	Sealing	-

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



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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.

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. TR 627 dated 19 October 2012 that includes 28 pages;
- No. SN 1236 dated 19 October 2012 that includes 16 pages;
- No. SN 1278 dated 4 April 2014 that includes 20 pages;
- No. SN 1331 dated 3 February 2016 that includes 10 pages;
- No. SN 1403 dated 18 October 2017 that includes 10 pages;
- No. SN 1421 dated 18 June 2018 that includes 9 pages;
- No. P02155 revision 1 dated 18 July 2017 that includes 15 pages.

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