

**OIML Member State**  
The Netherlands

Number R76/2006-A-NL1-19.56 revision 4  
Project number 3806631  
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Issuing authority

NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and  
Manufacturer

Rice Lake Weighing Systems  
230 West Coleman Street  
Rice Lake, WI 54868  
United States of America

Identification of the  
certified type

An **Indicator**  
Type : 680-2x; 680-2x-E;  
682-2x; 682-2x-E  
(x = A or D, for AC/DC respectively DC/DC power supply)

Characteristics

See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R 76-1:2006** for accuracy class (III) or (III)

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

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Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**  
22 November 2024

Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)

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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-2343404-01 dated 1 November 2019 that includes 51 pages;
- No. NMI-2633011-01 dated 9 September 2022 that includes 17 pages;
- No. NMI-2633011-02 dated 9 September 2022 that includes 25 pages;
- No. NMI-3806631-01 dated 22 November 2024 that includes 19 pages.

### Characteristics of the indicator:

Model	680	682
Configuration	Analog load cells	
Accuracy class	OIML R 76	
	(III) or (III)	
Weighing range(s)	Single interval	Single interval Multi-interval Multiple range
Maximum number of scale intervals	$n \leq 10000$	
Maximum number of weighing ranges	1	3
Load cell excitation voltage	10 V DC	
Minimum signal input voltage	$U_{\min} = 0 \text{ mV}$	
Minimum input voltage per verification scale interval	1 $\mu\text{V}$	
Minimum load cell resistance	43 $\Omega$	
Maximum load cell resistance	1050 $\Omega$	
Fraction of the maximum permissible error	0,5	
Load cell connection	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	1320,4 m/mm <sup>2</sup> 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 or 9 – 36 V DC	
Software identification (Version number)	1.xx.xx (xx= 00.. 99)	2.xx.xx (xx= 00.. 99)

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## Revision History

This revision replaces the previous versions.

Revision	Date	Change(s)
0	2019-11-01	Initial issue
1	2019-11-22	Correction Software version
2	2021-09-06	Correction of type from 680 Plus-2A to 680-2A. Added type with external ethernet connection: 680-2A-E Correction Software version: 1.xx.xx
3	2022-10-05	Adding new model 682 Including new DC/DC power board
4	2024-11-22	Adding alternative mainboards 680 and 682