

Issued by NMI Certin B.V.

In accordance with WELMEC 8.8 2017, WELMEC 2.4 Issue 2, OIML R 60 (2000), OIML R 76 (2006), EN 45501:2015

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

Measuring instrument A **compression load cell**, with strain gauges, equipped with electronics, tested as a part of a weighing instrument.

Brand : Rice Lake
Designation : RL5426D, RL5426DC

Further properties are described in the annexes:

- Description TC11699 revision 0;
- Documentation folder TC11699-1.

An overview of performed tests is given in the annex:

- Description TC11699 revision 0.

Issuing Authority

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Certification Board

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1 General information about the load cell

All properties of the load cell, whether mentioned or not, shall not be in conflict with the standards mentioned in this 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	Remark
11699/0-01	1	Load cell outline	Mechanical
11699/0-02	1	A/D board layout	With parts list

EMI protection measures:

- The load cell is built into a metal housing.

1.2 Essential characteristics

Maximum capacity (E_{max})	10 t up to and including 50 t
Minimum dead load (E_{min})	0 kg
Accuracy Class	C
Maximum number of load cell intervals (n) ⁽¹⁾	6000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$	8400
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	10000
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150% of E_{max}
Recommended excitation	8 – 15 V DC
Excitation maximum	15 V DC
Transducer material	Stainless steel
Atmospheric protection	Stainless steel potted
Number of counts for E_{max}	$\geq Y * 5 / p_{LC}$
Software identification	Version number: xx.xx.xx.01 Checksum: xx.xx.xx.6C ⁽²⁾

Remarks:

1. The characteristics for n_{max} , Y and Z can be reduced separately.
2. xx is a number between 00 and 99 representing updates of the non legally relevant part of the software.

Software:

- The identification number will be displayed on the device that displays the primary indications;
- The load cell has embedded software (OIML R 76-1 (2006)).

List of legally relevant functions:

- Digital filter.

Data transmission:

The load cell is equipped with one of the following protective interfaces that have not to be secured:

- RS485;
- I2C.

1.3 Essential shapes

Number	Pages	Description	Remark
11699/0-01	1	Load cell outline	Mechanical

The descriptive markings plate is secured against removal by sealing or will be destroyed when removed and contains at least the information and markings as described in OIML R 60 (2000) and:

- This certificate number TC11699 (in the countries where it is mandatory);
- Producers name or mark.

2 Seals

This load cell can only be used in combination with an indicator that does not allow changing of the adjustment data of the load cell using any interface.

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

3 Conditions for conformity assessment

Each load cell produced is provided with an accompanying document with information about its characteristics.

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 Annex F, at the time of putting into use. Other parties may use this certificate without the written permission of the producer (WELMEC 8.8).

4 Reports

An overview of performed tests is given in the reports:

- No. 16/34514130-L dated 5 May 2016 that includes 35 pages;
- No. 16/31703884 dated 20 May 2016 includes 21 pages;
- No. 19/31704291 dated 25 June 2019 that includes 28 pages;
- No. 20/34502546-L dated 24 January 2020 that includes 9 pages.

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