

Issued by NMI Certin B.V.

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

Producer Hottinger Baldwin Messtechnik GmbH
Im Tiefen See 45
D-64293 Darmstadt
Germany

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

Registered trade name : HBM
Designation : RSC...

Further properties are described in the annexes:

- Description TC2631 revision 6;
- Documentation folder TC2631-5.

An overview of performed tests is given in the annex:

- Description TC2631 revision 6.

Remarks This revision replaces the earlier versions, including its documentation folder.

Issuing Authority **NMI Certin B.V.**
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Certification Board

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This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.

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, an EC-type examination certificate or an EU-type examination certificate.

1.1 Essential parts

Number	Pages	Description	Remark
2631/6-01	1	RSC-ALL	Mechanical
2631/6-02	1	RSCB-6T	Mechanical
2631/6-03	6	RSCC data sheet	Mechanical / Electrical
2631/6-04	2	RSCB..	Mechanical / Electrical
2631/6-05	1	Schematic RSC load cell	Electrical

Cable:

- If the load cell is provided with a 4-wire system:
 - The cable length is mentioned in the accompanying load cell document or on the label;
 - The cable length shall not be modified.
- If the load cell is provided with a 6-wire system (=“Remote-sensing”):
 - The cable length is not limited.

The cable is shielded; the shield is connected to the load cell.

1.2 Essential characteristics

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{max})	50 kg up to and including 5000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2 mV/V \pm 0,25%
Maximum number of load cell intervals (n) ⁽¹⁾	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	8333
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	3000

Input impedance	350 Ω ± 15 Ω or 389 Ω ± 15 Ω
Temperature range	-10 °C / +40 °C
Fraction p _{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E _{max}
Output impedance	350 Ω ± 1,5 Ω or 359 Ω ± 1,5 Ω
Recommended excitation	5 V AC / DC
Excitation maximum	12 V AC / DC
Transducer material	Stainless steel
Atmospheric protection	Hermetical sealed

Remark:

1. The characteristics for n_{max}, Y and Z can be reduced separately.

1.3 Essential shapes

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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 (2017) and:

- This certificate number TC2631 (in the countries where it is mandatory);
- Producers name or mark.

2 Seals

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 EN45501:2015 clause F.4 at the time of putting into use.

Other parties may use this certificate without the written permission of the producer.



Description

Number **TC2631** revision 6
Project number 2395488
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4 Reports

An overview of performed tests is given in the reports:

- No. R60/2000-NL1-10.12 dated 24 November 2010 that includes 64 pages;
- No. NMI-2395488-01 dated 15 May 2020 that includes 26 pages;
- No. NMI-2395488-02 dated 15 May 2020 that includes 24 pages..

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