



OIML Certificate

OIML Member State
The Netherlands

Number R60/2000-A-NL1-24.17 revision 0
Project number 3789614
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Issuing authority

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

Applicant and
Manufacturer

Balance Scales EOOD
Lazur, bl. 5, entr. 2, fl. 7, app. 4
8000 Bargas
Bulgaria

Identification of the
certified type

A **compression load cell**, with strain gauges, equipped with electronics.
Registered trade name : BALANCE
Type : NZ1

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 60 (2000) for accuracy class C

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.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
6 June 2024

Certification Board

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This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

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.





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

- No. R60/2000-NL1-04.16 dated 27 September 2004 that includes 53 pages;
- No. NMI-1901068-01 revision 1 dated 22 August 2017 that includes 89 pages.

Characteristics of the load cell:

Maximum capacity (E_{\max})	25 t up to and including 100 t
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	166666 cts if $E_{\max} = 25\text{t}$ 200000 cts if $E_{\max} > 25\text{t}$
Maximum number of load cell intervals (n) ⁽¹⁾	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	15000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	9000
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,8
Humidity Class	CH
Safe overload	200 % of E_{\max}
Recommended excitation	12 V DC
Excitation maximum	12 V DC
Transducer material	Stainless steel
Atmospheric protection	Hermetically welded
Electromagnetic environment class	E2
Number of counts for E_{\max}	$\geq Y * 5 / p_{LC}$
Software identification	Version number: XRC1xxxxxx or XRCv2xxxxxx ⁽²⁾

Remarks:

1. The characteristics for n_{\max} , Y and Z can be reduced separately.
2. xxxxxx is a number between 000000 and 999999 representing updates of the non legally relevant part of the software.

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



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The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.

Revision History

Revision	Date	Change(s)
0	2024-06-06	Initial issue.