



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-25.11 revision 0
Project number 3985535
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Issuing authority

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

Applicant and
Manufacturer

BALANCE SCALES
Industrial zone Sarafovo
8000 Bargas
Bulgaria

Identification of the
certified type

A **compression load cell**, with strain gauges, equipped with electronics.
Registered trade name : BALANCE SCALES
Type : NZ2

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 60-1:2021 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.

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
5 August 2025

Certification Board

NMi Certin B.V.
Thijssseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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. NMI-3621255-01 dated 21 December 2023 that includes 71 pages;
- No. NMI-3799793-01 dated 20 June 2024 that includes 69 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Digital load cell
Maximum capacity ($E_{\max}$)	20 t up to and including 100 t
Minimum dead load	0 kg
Accuracy Class	C
Maximum number of load cell intervals (n) ⁽¹⁾	5000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	18000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	5000
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0,8
Humidity Class	CH
Safe overload	150 % of $E_{\max}$
Recommended excitation	12 V DC
Excitation maximum	18 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: 1.xxx ⁽²⁾

Remarks:

1. The characteristics for $n_{\max}$, Y and Z can be reduced separately.
2. xxx is a number between 120 and 999, 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	2025-08-05	Initial issue.