



OIML Certificate

OIML Member State
The Netherlands

Number R60/2017-A-NL1-23.02 revision 1
Project number 3877486
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Issuing authority

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

Applicant and
Manufacturer

Minebea Intec GmbH
Meiendorfer Strasse 205 A
D-22145 Hamburg
Germany

Identification of the
certified type

A **compression load cell**, with strain gauges, equipped with electronics.
Registered trade name : Minebea Intec GmbH
Type : PR 6224B

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 60-1:2017 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
19 June 2025

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. NMI-3458015-01 dated 19 May 2023 that includes 17 pages;
- No. NMI-3458015-03 dated 19 May 2023 that includes 61 pages;
- No. NMI-3877486-01 dated 19 June 2025 that includes 18 pages;
- No. NMI-3877486-02 dated 19 June 2025 that includes 9 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Digital load cell with data processing	
Maximum capacity ($E_{\max}$)	20000 kg up to and including 75000 kg	
Minimum dead load	0 kg	
Accuracy Class	C	
Maximum number of load cell intervals (n) ⁽¹⁾	6000	
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	20000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	8000	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	20 t: 187 % of $E_{\max}$ 50 t: 150 % of $E_{\max}$ 25 t: 150 % of $E_{\max}$ 60 t: 125 % of $E_{\max}$ 30 t: 250 % of $E_{\max}$ 75 t: 100 % of $E_{\max}$	
Recommended excitation	12 – 28 V DC	
Transducer material	Stainless steel	
Number of counts for $E_{\max}$	$\geq Y * 5 / p_{LC}$	
Atmospheric protection	Hermetically welded	
Electromagnetic environment class	E2	
Software identification	Version number: 01.01.01 or 01.02.xx ⁽²⁾	

Remarks:

1. The characteristics for $n_{\max}$, Y and Z can be reduced separately.
2. x = 0... 9 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

This revision replaces the previous version.

Revision	Date	Change(s)
0	2023-05-22	Initial issue.
1	2025-06-19	Adding new software version, adding test reports for junction box changes, excitation changed to DC power.