

OIML Member State
The Netherlands

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Project number 3769928
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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.
Registered trade name : Minebea Intec GmbH
Type : PR 6212

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
7 May 2024

Certification Board

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

- No. NMI-16200404-01 dated 6 October 2016 that includes 51 pages;
- No. NMI-16200404-02 dated 6 October 2016 that includes 48 pages;
- No. NMI-3769928-01 dated 7 May 2024 that includes 49 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell				
Maximum capacity (E_{max})	100 kg	200 kg	300 kg	500, 1000 and 2000 kg	500, 1000, 2000, 3000, 5000 and 10000 kg
Minimum dead load	0 kg				
Accuracy Class	C				
Rated Output	2 mV/V \pm 0,25 mV/V				
Maximum number of load cell intervals (n) ⁽¹⁾	1000		2000		1000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	1500	3000	4500	8000	5000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	1000		2000		1500
Input impedance	650 Ω \pm 6 Ω				
Temperature range	-10 $^{\circ}$ C / + 40 $^{\circ}$ C				
Fraction p_{LC}	0,7				
Humidity Class	CH				
Safe overload	150 % of E_{max}				
Output impedance	610 Ω \pm 1 Ω				
Recommended excitation	10 V AC / DC		4 - 24 V AC / DC		
Excitation maximum	24 V AC / DC		32 V AC / DC		
Transducer material	Stainless steel				
Atmospheric protection	Hermetically sealed				

Remark:

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



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

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	2024-05-07	Initial issue.