



OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R60/2000-NL1-17.25
Project number 1900650
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	MinebeaMitsumi Inc. 1-1-1, Katase Fujisawa-shi, Kanagawa-ken 251-8531 Fujisawa Japan
Identification of the certified type	A single point load cell , with strain gauges. Type : CBE1
Characteristics	See next page

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 R60 - Edition 2000 (E) 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**
17 March 2017


C. Oosterman
Head 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



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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- No. NMI-11200657-01 Revision 1 dated 16 May 2012 that includes 27 pages;
- No. NMI-11200657-02 Revision 1 dated 16 May 2012 that includes 24 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	10 kg up to 100 kg	100 kg up to and including 300 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2 mV/V	
Maximum number of load cell intervals (n)	3000	
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	10000	6000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000	
Input impedance	400 $\Omega \pm 50 \Omega$	
Temperature range	-10 °C / +40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	150 % of E_{max}	
Output impedance	350 $\Omega \pm 5 \Omega$	
Recommended excitation	10 V AC / DC	
Excitation maximum	20 V AC / DC	
Transducer material	Stainless Steel	
Atmospheric protection	Welded	

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

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