

**OIML Member State**  
The Netherlands

Number R60/2000-A-NL1-19.12  
Project number 2243255  
Page 1 of 2

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 <b>single point load cell</b> , with strain gauges. Type : C2G1
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** - 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.

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Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
4 July 2019

  
C. Oosterman  
Head Certification Board

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Page 2 of 2

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

- No. R60/2000-NL1-05.06 dated 15 September 2004 that includes 37 pages;
- No. NMI-2243255-01 dated 4 July 2019 that includes 46 pages;
- No. NMI-2243255-02 dated 4 July 2019 that includes 49 pages.

### Characteristics of the load cell:

Maximum capacity ( $E_{max}$ )	3 kg up to 15 kg	6 kg up to 15 kg	15 kg up to and including 50 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	2,0 mV/V		
Maximum number of load cell intervals (n)	3000	6000	
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	15000	10000	15000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000	6000	
Input impedance	425 $\Omega \pm 25 \Omega$		
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	12 V AC / DC		
Excitation maximum	20 V AC / DC		
Transducer material	Aluminum alloy		
Atmospheric protection	Silicon resin coating		

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

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

For reports NMI-2243255-01 and NMI-2243255-02, 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.