



Member State of OIML  
Japan



OIML Certificate No.  
R60/2000-JP1-11.03  
Revision 1

## OIML CERTIFICATE OF CONFORMITY

### Issuing authority

Name: National Metrology Institute of Japan / National Institute of  
Advanced Industrial Science and Technology (NMIJ / AIST)  
Address: AIST Tsukuba Central 3-9, Tsukuba Ibaraki 305-8563, Japan  
Person responsible: Dr. Tamotsu Nomakuchi, President of AIST

### Applicant

Name: MINEBEA CO., LTD.  
Address: 1-1-1, Katase, Fujisawa-shi, Kanagawa-ken, 251-8531, Japan

### Manufacturer of the certified pattern

Name: MINEBEA CO., LTD.  
Address: 1-1-1, Katase, Fujisawa-shi, Kanagawa-ken, 251-8531, Japan

### Identification of the certified pattern:

Beam(bending) load cell

Type: C2B1B-200K-C3, C2B1B-250K-C3, C2B1B-500K-C3, C2B1B-550K-C3,  
C2B1B-1T-C3, C2B1B-1.1T-C3, C2B1B-1.76T-C3, C2B1B-2T-C3,  
C2B1B-2.2T-C3

Fraction:  $\pi=0.7$

Temperature range:  $-10\text{ }^{\circ}\text{C} / 40\text{ }^{\circ}\text{C}$



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Characteristics:

| Model designation  |           |          | C2B1B-200K-C3   | C2B1B-xxK-C3<br>where xx equal to the $E_{max}$ | C2B1B-xxT-C3<br>where xx equivalent to the $E_{max}/1000$ |
|--|-----------|----------|-----------------|---|---|
| Accuracy class   | Class     | -        | C               |   |   |
| Maximum number of load cell verification intervals                   | $n_{max}$ | -        | 3000            |   |   |
| Humidity symbol  |           |          | CH              |   |   |
| Minimum dead load  | $E_{min}$ | kg       | 0               |   |   |
| Maximum capacity   | $E_{max}$ | kg       | 200             | 250, 500, 550                                   | 1000, 1100, 1760, 2000, 2200                              |
| Safe load limit  | $E_{lim}$ | kg       | $1.5 * E_{max}$ |   |   |
| Minimum verification interval  | $v_{min}$ | kg       | $E_{max}/10000$ |   |   |
| Apportionment factor   | $p_{LC}$  |          | 0.7             |   |   |
| Ratio of minimum LC Verification interval<br>$Y = E_{max} / v_{min}$ | Y         | -        | 10000           |   |   |
| Ratio of minimum dead load output return<br>$Z = E_{max} / (2 * DR)$ | Z         | -        | 3000            |   |   |
| Rated output   |           | mV/V     | 1.6             | 2.0   |   |
| Excitation voltage   |           | V DC     | 5 ~ 15          |   |   |
| Input impedance  | $R_{LC}$  | $\Omega$ | $420 \pm 40$    |   |   |
| Cable length (maximum)   |           | m        | 6               |   |   |

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report(s) with the requirements of the following Recommendation of the International Organization of Legal Metrology - OIML):

R60, edition 2000 (E)  
For accuracy class C

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

The conformity was established by tests described in the associated test report no. 11-03/R60:2000, that includes 33 pages.



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The Issuing Authority  
NMIJ/AIST



Dr. T. Nomakuchi  
President of AIST  
2012-07-20

The OIML member

Dr. Y. Miki  
2012-07-20

Important note: Apart from the mention of certificate's reference number and the name of the OIML Member State in which the certificate is issued, partial quotation of the certificate and of the associated Test Report is not permitted, although either may be reproduced in full.