





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

Member State of OIML Japan

## 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 °C / 40 °C







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## Characteristics:

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

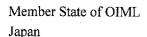
For accuracy class C

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. Nomakuck President of AIST 2012-07-20

The CIML 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.







## **Evaluation Report Corrigendum 1**

Load cells

**Issuing Authority** 

Name

: National Metrology Institute of Japan /National Institute

of Advanced Industrial Science and Technology (NMIJ/AIST)

Address

: AIST Tsukuba Central 3, Tsukuba, Ibaraki, 305-8563, Japan

This corrigendum for the Evaluation Report (Evaluation Report Number:22-026) has been issued to correct an error and to change type names on applicant's request as follows.

Error: C2B1B-1.76T was missing in the list of Applied Type.

Change on applicant's request: "-C3" is added to each name of the Applied Type, e.g. C2B1B-200K-C3 from C2B1B-200K.

1) Applied Type stated on the front page is replaced by (changed parts are <u>underlined</u>):

Applied 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

- 2) On Page 1 of 3 pages, C2B1B-200K, C2B1B-xxK and C2B1B-xxT are replaced by C2B1B-200K-C3, C2B1B-xxK-C3 and C2B1B-xxT-C3, respectively.
- 3) Page 2 of 3 pages is replaced by the following Corrigendum Page 2/2 due to change of type names.
- 4) As a result of the above alterations, the OIML Certification number on the header of each page is replaced by R60/2000-JP1-11-03 Revision 1.

**Evaluator:** 

Wataru Kaminaga

Legal Metrology Division

NMIJ/AIST

Signature:

W. Kaminaga

Supervisor:

Shigeki Yamaguchi

Head of Legal Metrology Division

NMIJ/AIST

Signature:

D

Shigeki Yamaguchi

Date: 2012. 7.13

Date: 20/2. 7. 13

