



Member State of OIML  
Japan



OIML Certificate No.  
R60/2000-JP1-13.01

## 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:

Universal (Tension/Compression) load cell

Type: U2S1-200K-C3, U2S1-250K-C3, U2S1-500K-C3, U2S1-1T-C3,  
U2S1-2T-C3

Fraction:  $\pi=0.7$

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



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Characteristics:

Model designation			U2S1-xx K-C3, where xx equivalent to the $E_{max}$	U2S1-xx T-C3, 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	1000,2000
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 $Y = E_{max} / v_{min}$	$Y$	-	10000	
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	$Z$	-	3000	
Rated output		mV/V	2.0	
excitation voltage		V DC	5~15	
Input impedance	$R_{LC}$	$\Omega$	$420 \pm 40$	
Cable detail		-	6m 4wire	

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. 13-01/R60:2000, that includes 59 pages.



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The Issuing Authority  
NMIJ/AIST



Dr. T. Nomakuchi  
President of AIST  
2013-03-26

The OIML member

Dr. Y. Miki  
2013-03-26

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