



OIML Member State

Japan

OIML Certificate No. R60/2000-A-JP1-23.03

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name:

National Metrology Institute of Japan /National Institute of

Advanced Industrial Science and Technology (NMIJ/AIST)

Address:

AIST Tsukuba Central 3, 1-1-1 Umezono Tsukuba Ibaraki

305-8563, Japan

Person responsible:

ISHIMURA Kazuhiko, President of AIST

Applicant

Name: Address: Yamato Scale Co., Ltd.

5-22 Saenba-cho, Akashi, 673-8688, Japan

Manufacturer

Name:

Yamato Scale Co., Ltd.

Address:

5-22 Saenba-cho, Akashi, 673-8688, Japan

Identification of the certified type (the detailed characteristics will be defined in the additional pages)

Beam (bending) load cell, with strain gauges

Models: UB2-100, UB2-200, UB2-300, QUB2-100, QUB2-200, QUB2-300,

QUB21-100, QUB21-200, QUB21-300

Designation of the module (if applicable)

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation 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 OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

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

No. 2023-005, dated 2 October 2023, that includes 5 pages

The technical documentation relating to the identified type is contained in documentation file:

No. 2023-005-D, dated 2 October 2023

OIML Certificate History

Revision No.	Date	Description of the modification			
Revision 0	4 October 2023	OIML Certificate first issued			
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This revision replaces previous versions of the certificate.

Identification, signature and stamp

The Issuing Authority

NMIJ/AIST

The CIML Member

ISHIMURA Kazuhiko President of AIST

4 October 2023

TAKATSUJI Toshiyuki

4 October 2023

The accreditation body:

NMIJ/AIST has achieved accreditation under the ASNITE-Product (OIML) scheme of IAJapan, which applies ISO/IEC 17065:2012 and regulations relevant to OIML-CS as the accreditation criteria. The accreditation identification for this accreditation is ASNITE 0001 Product and the details of the accreditation information could be referred from the IAJapan website (https://www.nite.go.jp/en/iajapan/asnite/lab/index.html).

Important note:

Apart from the mention of the 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 OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

DESCRIPTIVE ANNEX

Characteristics of the Load cell:

Model designation		UB2-100 QUB2-100 QUB21-100	UB2-200 QUB2-200 QUB21-200	UB2-300 QUB2-300 QUB21-300	Units
Classification		С			
Maximum capacity	E _{max}	100	200	300	kg
Minimum dead load	E_{min}	0			kg
Maximum number of verification scale intervals	n _{LC}	5 000 4 000 3 000			
Relative v_{min} (ratio to minimum load cell verification interval)	Y	10 000			
Relative DR		5 000			
(ratio to minimum dead	Z	war promotes	4 000		
load output return)		manuar desirante de la constitución de la constituc	3 000		
Rated Output		sundictions manifest	2.0	natura	mV/V
Maximum excitation voltage	À	15			V DC
Input impedance	R _{LC}	350 ± 10			Ω
Temperature range	Т	-10 / +40			$^{\circ}$ C
Safe load limit	%• E _{max}	150			%
Fraction	p _{LC}	0.7			
Humidity Class	ALC: N	CH			
Transducer material	1	Aluminum alloy			
Atmospheric protection	100	1	IP67	3/	

Characteristics of load cell cable:

The cable has 6-wire plus shield. The ground is open at the load cell end. Electrical connectors: 6-wire with shield, Specification as follows:

Excitation +	White	
Excitation -	Green	
Signal +	Red	
Signal -	Black	
Sense +	Brown	
Sense -	Yellow	
Shield	Dark Green	
Cable length (Maximum)	5 m	