



OIML Member State
Japan

OIML Certificate No.
R60/2017-A-JP1-21.01

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 3-9, Tsukuba Ibaraki 305-8563, Japan

Person responsible: ISHIMURA Kazuhiko, President of AIST

Applicant

Name: A&D Company, Limited
Address: 3-23-14 Higashi-Ikebukuro, Toshima-ku, Tokyo 170-0013 JAPAN

Manufacturer

Name: A&D Company, Limited
Address: 3-23-14 Higashi-Ikebukuro, Toshima-ku, Tokyo 170-0013 JAPAN

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

Models:
Compression load cell, with strain gauges
Type: LCC20 series

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: 2017 (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. 2021-005, dated 14 December 2021, that includes 5 pages

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

No. 2021-005-D, dated 14 December 2021

OIML Certificate History

Revision No.	Date	Description of the modification
Revision 0	23 December 2021	OIML Certificate first issued
-	-	-
-	-	-
-	-	-

This revision replaces previous versions of the certificate.

Identification, signature and stamp
The Issuing Authority
NMIJ/AIST

The OIML Member



ISHIMURA Kazuhiko
President of AIST
23 December 2021

TAKATSUJI Toshiyuki
23 December 2021

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	Designation		Units
Classification		C4	
Maximum number of verification scale intervals	n_{LC}	4000	
Maximum capacity	E_{max}	10 / 20 / 30	t
Minimum dead load, relative	E_{min}	0 % E_{max}	kg
Ratio of minimum LC Verification interval	$Y=(E_{max}-E_{min})/V_{min}$	10 000	
Ratio of minimum dead load output return	$Z=(E_{max}-E_{min})/(2 \times DR)$	4 000	
Rated Output		2	mV/V
Maximum excitation voltage		15	V DC
Input impedance	R_{LC}	800 ± 80	Ω
Temperature range		-10 / +40	$^{\circ}C$
Safe overload	E_{lim} / E_{max}	150	%
Minimum load cell verification intervals	$V_{min}=(E_{max}-E_{min})/Y$	$E_{max} / 10000$	kg
Fraction	p_{LC}	0.7	
Humidity Class		CH	
Transducer material		Mild steel	
Atmospheric protection		IP68	

Characteristics of load cell cable:

The cable has 6-wire plus shield. The ground is open at the load cell end. The cross section of wire is $6 \times 0.3 \text{ mm}^2$. Electrical connectors: 6-wire with shield, Specification as follows:

Connections	6-wire
Excitation +	Red
Excitation -	White
Signal +	Green
Signal -	Blue
Sensing +	Orange
Sensing -	Black
Cable length	18 m