



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-24.15 revision 0
Project number 3811488
Page 1 of 3

Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Str. 30
63911 Klingenberg
Germany

Identification of the
certified type

A **shear beam load cell**, with strain gauges.
Registered trade name : WIKA
Type : F3201

Characteristics

See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 60-1:2021 for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified.
This Certificate does not bestow any form of legal international approval.

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

Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
3 May 2024

Certification Board

NMi Certin B.V.
Thijssseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.



OIML Member State
The Netherlands

Number R60/2021-A-NL1-24.15 revision 0
Project number 3811488
Page 2 of 3

The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-2445645-01 dated 22 December 2020 that includes 27 pages;
- No. NMI-2445645-02 dated 22 December 2020 that includes 26 pages;
- No. NMI-2445645-03 dated 22 December 2020 that includes 24 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{\max})	300 kg up to and including 5000 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2 mV/V \pm 0,2 mV/V or 3 mV/V \pm 0,3 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{\max} / v_{\min}$	15000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{\max} / (2 * DR)$	3000
Input impedance	400 $\Omega \pm 20 \Omega$
Temperature range	- 10 °C / + 40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{\max}
Output impedance	350 $\Omega \pm 5 \Omega$
Recommended excitation	10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Alloy steel or stainless steel
Atmospheric protection	Silicone sealing or hermetically welded

Remark:

1. The characteristics for n_{\max} , Y and Z can be reduced separately.

Each load cell produced is provided with an accompanying document with information about its characteristics.



OIML Certificate

OIML Member State
The Netherlands

Number R60/2021-A-NL1-24.15 revision 0
Project number 3811488
Page 3 of 3

Revision History

Revision	Date	Change(s)
0	2024-05-03	Initial issue.