

OIML Member State
The Netherlands

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Project number 4111817
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Issuing authority

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

Applicant and
Manufacturer

Ningbo AIEN Electronics Co., Ltd.
No.10 Building Wanyang Entrepreneurial City
Hemudu, Yuyao
Ningbo
P.R. China

Identification of the
certified type

A **compression load cell**, with strain gauges
Registered trade name : AIEN
Type : HZS, IN-ZS01, IN-ZS02, IN-ZS03

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
5 June 2026

Certification Board

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

- No. NMI-3826132-01 dated 9 October 2025 that includes 51 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell,
Maximum capacity (E_{max})	20 t up to and including 100 t
Minimum dead load	0 t
Accuracy Class	C
Rated Output	2 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	6000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	10000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	6000
Input impedance	$750 \Omega \pm 10 \Omega$
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	$702 \Omega \pm 2 \Omega$
Recommended excitation	10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Alloy steel
Atmospheric protection	Hermetically welded

Remarks:

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.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.



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Revision History

This revision replaces the previous version(s).

Revision	Date	Change(s)
0	2025-10-09	Initial issue.
1	2026-06-05	Adding type IN-ZS01, IN-ZS02, IN-ZS03