

OIML Member State
The Netherlands

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Project number 2187240
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Issuing authority

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

Applicant and
Manufacturer

Flintec UK Ltd
W4/5 Capital Point, Capital Business Park
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Cardiff, CF3 2PW
United Kingdom

Identification of the
certified type

A **bending beam load cell**, with strain gauges, equipped with electronics.
Registered trade name : Flintec
Type : SB14

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 60-1:2017 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
4 February 2025

Certification Board

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

- No. NMI-2341680-01 dated 28 March 2019 that includes 51 pages;
- No. NMI-2187240-03 dated 26 February 2021 that includes 49 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity (E_{max})	90 kg up to 227 kg	227 kg up to and including 1134 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,000 ± 0,002 mV/V	
Maximum number of load cell intervals (n) ⁽¹⁾	5000	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	23000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	6000	4000
Input impedance	1100 Ω ± 50 Ω	
Temperature range	-10 °C / + 40 °C	
Fraction p_{LC}	0,7	
Humidity Class	CH	
Safe overload	200 % of E_{max}	
Output impedance	1000 Ω ± 2 Ω	
Recommended excitation	10 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Stainless steel	
Atmospheric protection	Hermetically sealed	

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.

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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.

Revision History

This revision replaces the previous version.

Revision	Date	Change(s)
0	2021-02-26	Initial issue.
1	2025-02-04	Correction in report number