



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-21.29  
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  
Wentloog Avenue  
Cardiff, CF3 2PW  
United Kingdom

Identification of the  
certified type

A **bending beam load cell**, with strain gauges.  
Registered trade name : Flintec  
Type : SB4

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** - Edition 2017 (E) 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**  
17 May 2021

Certification Board

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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](http://www.oiml.org)

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The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Reports:

- No. NMI-2187240-01 dated 11 March 2019 that includes 51 pages.
- No. NMI-2187240-02 dated 26 February 2021 that includes 46 pages.

### Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Maximum capacity ( $E_{max}$ )	500 kg up to 2000 kg	2000 kg up to and including 10000 kg
Minimum dead load	0 kg	
Accuracy Class	C	
Rated Output	2,000 mV/V $\pm$ 0,002 mV/V	
Maximum number of load cell intervals (n) <sup>(1)</sup>	3000	
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	11000	9000
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	7500	
Input impedance	1100 $\Omega \pm$ 50 $\Omega$	
Temperature range	-10 °C / + 40 °C	
Fraction $p_{LC}$	0,7	
Humidity Class	CH	
Safe overload	200 % of $E_{max}$	
Output impedance	1000 $\Omega \pm$ 2 $\Omega$	
Recommended excitation	10 V AC / DC	
Excitation maximum	15 V AC / DC	
Transducer material	Stainless 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.