

**OIML Member State**  
The Netherlands

Number R60/2017-A-NL1-21.14  
Project number 2187240  
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Issuing authority NMI Certin B.V.  
Person responsible: M. Boudewijns

Applicant and Manufacturer Flintec UK Ltd  
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Identification of the certified type A **bending beam load cell**, with strain gauges.  
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** - 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**  
26 February 2021

Certification Board

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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-2342680-01 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	$2,000 \pm 0,002$ mV/V	
Maximum number of load cell intervals (n) <sup>(1)</sup>	5000	4000
Ratio of minimum LC Verification interval <sup>(1)</sup> $Y = E_{max} / V_{min}$	23000	
Ratio of minimum dead load output return <sup>(1)</sup> $Z = E_{max} / (2 * DR)$	6000	4000
Input impedance	$1100 \Omega \pm 50 \Omega$	
Temperature range	$-10 \text{ }^\circ\text{C} / + 40 \text{ }^\circ\text{C}$	
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 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.

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.