

OIML Member State
The Netherlands

Number R60/2017-A-NL1-21.33
Project number 2593513
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Issuing authority

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

Applicant and
Manufacturer

Flintec UK Limited
Caxton House, Caxton Place
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United Kingdom

Identification of the
certified type

A **compression load cell**, with strain gauges.
Registered trade name : Flintec
Type : RC3
RC3-TS

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
3 September 2021

Certification Board

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

- No. NMI-14200617-01 dated 24 December 2014 that includes 27 pages;
- No. NMI-2593513-01 dated 3 September 2021 that includes 49 pages;
- No. NMI-2593513-02 dated 3 September 2021 that includes 49 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell		
Type designation	RC3		RC3-TS
Maximum capacity (E_{max})	7,5 t up to 25 t	25 t up to and including 100 t	30 t up to and including 40 t
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	1,67 mV/V or 2,00 mV/V		2,00 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	3500	4000	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	10000	15000	
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	5800	7000	
Input impedance	1150 $\Omega \pm 50 \Omega$		
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 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.