

Issued by NMI Certin B.V.

In accordance with WELMEC 8.8 2017, WELMEC 2.4 Issue 2, OIML R 60 (2017), EN 45501:2015.

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

Measuring instrument A **single point load cell**, with strain gauges, tested as a part of a weighing instrument.

Registered trade name : Flintec UK Ltd
Designation : PC7

Further properties are described in the annexes:

- Description TC11841 revision 1;
- Documentation folder TC11841-1.

An overview of performed tests is given in the annex:

- Description TC11841 revision 1.

Remarks This revision replaces the earlier version, except for its documentation folder.

Issuing Authority **NMI Certin B.V.**
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Certification Board

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1 General information about the load cell

All properties of the load cell, whether mentioned or not, shall not be in conflict with the standards mentioned in this certificate.

This certificate is the positive result of the applied voluntary, modular approach, for a component of a measuring instrument, as described in WELMEC 8.8. The complete measuring system must be covered by an EC type-approval certificate, an EC-type examination certificate or an EU-type examination certificate.

1.1 Essential parts

Number	Pages	Description	Remark
11841/0-01	1	PC7 DRAWINGS	Mechanical / Electrical

Cable:

- The load cell is provided with a 6-wire system (=“Remote-sensing”):
 - The cable length is not limited.

1.2 Essential characteristics

Characterization of load cell capabilities	Analog-passive load cell
Maximum capacity (E_{max})	100 kg up to and including 500 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V \pm 0,2 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	4000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	15000
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	7820
Input impedance	380 Ω \pm 20 Ω
Temperature range	-10 °C / + 40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	200 % of E_{max}
Output impedance	350 Ω \pm 10 Ω

Excitation minimum	5 V DC
Recommended excitation	10 V DC
Excitation maximum	15 V DC
Transducer material	Stainless steel
Atmospheric protection	IP68 / IP69K Hermetically sealed

Remarks:

1. The characteristics for n_{max} and Z can be reduced separately.

1.3 Essential shapes

Number	Pages	Description	Remark
11841/0-01	1	PC7 DRAWINGS	Mechanical / Electrical

The descriptive markings plate is secured against removal by sealing or will be destroyed when removed and contains at least the information and markings as described in OIML R 60 (2017) and:

- This certificate number TC11841 (in the countries where it is mandatory);
- Producers name or mark.

2 Seals

The connecting cable of the load cell or the junction box is provided with possibility to seal.

3 Conditions for conformity assessment

Each load cell produced is provided with an accompanying document with information about its characteristics.

The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in EN45501:2015 clause F.4, at the time of putting into use.

Other parties may use this certificate without the written permission of the producer.

4 Reports

An overview of performed tests is given in the reports:

- No. SN1246 dated 7 March 2013 that includes 22 pages;
- No. SN1251 dated 14 March 2013 that includes 22 pages.

A report can be a test report, an evaluation report, a type evaluation report and/or a pattern evaluation report.