

Test Certificate Parts Certificate

Number **TC11370** revision 1
Project number 2341680
Page 1 of 1

Issued by NMI Certin B.V.

In accordance with WELMEC 8.8 Issue 2, WELMEC 2.4 Issue 2, OIML R 60 (2000), EN 45501:2015.

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

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

Brand : Flintec
Designation : SB14

Further properties are described in the annexes:

- Description TC11370 revision 1;
- Documentation folder TC11370-1.

- + An overview of performed tests is given in the annex:
 - Description TC11370 revision 1.

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

Issuing Authority

NMI Certin B.V.
4 April 2019


C. Oosterman
Head Certification Board

NMI Certin B.V.
Thijssseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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Description

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Page 1 of 2

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 or an EU-type examination certificate.

1.1 Essential parts

Number	Pages	Description	Remark
11370/0-01	1	SB14 load cell drawing	Mechanical and electrical

Cable:

- If the load cell is provided with a 4-wire system:
 - The cable length is mentioned in the accompanying load cell document / on the label;
 - The cable length shall not be modified.
- If the load cell is provided with a 6-wire system (=“Remote-sensing”):
 - The cable length is not limited.

The cable is shielded; the shield can be connected to the load cell body.

1.2 Essential characteristics

Maximum capacity (E_{\max})	90 kg up to and including 454 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2 mV/V
Maximum number of load cell intervals (n) ⁽¹⁾	5000
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
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 sealed

Remark:

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

1.3 Essential shapes

Number	Pages	Description	Remark
11370/0-01	1	SB14 load cell drawing	Mechanical and 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 (2000) and:

- This certificate number TC11370 (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 WELMEC 2, 2015 clause 10, at the time of putting into use.

Other parties may use this certificate without the written permission of the producer (WELMEC 8.8).

4 Reports

An overview of performed tests is given in the report(s):

- No. NMI-2342680-01 dated 28 March 2019 that includes 51 pages.

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