Test Certificate
Parts Certificate

Number **TC8337** revision 0
Project number 13200048

Issued by	NMi Certin B.V.
In accordance with	WELMEC 8.8 Issue 2, Paragraph 8.1 of EN 45501:1992/AC:1993, OIML R60:2000, WELMEC 2.4 Issue 2.
Producer	Keli Sensing Technology (Ningbo) Co.,Ltd. No.199 of Changxing RD, Jiangbei district Ningbo P.R. China
Measuring instrument	A **single point load cell**, with strain gauges, tested as a part of a weighing instrument.

Brand : Keli Sensing Technology (Ningbo) Co.,Ltd.
Designation : XSB

Further properties are described in the annexes:
- Description TC8337 revision 0;
- Documentation folder TC8337-1.

An overview of performed tests is given in the annex:
- Description TC8337 revision 0.

Issuing Authority **NMi Certin B.V.**
10 June 2013

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INSPECTION
RvA I 122

Description

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 guide 8.8. The complete measuring system must be covered by an EC type-examination Certificate.

1.1 Essential parts

Number	Pages	Description	Remark
8337/0-01	1	XSB 500kg – 2.5 t	Mechanical and electrical

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

The cable should be a shielded cable, the shield is not connected to the load cell.

1.2 Essential characteristics

Maximum capacity (E_{max})	500 kg up to and including 2500 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 ± 0,2 mV/V
Maximum number of load cell intervals (n)	3000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	10000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000
Input impedance	404 Ω ± 15 Ω
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150% of E_{max}
Output impedance	350 Ω ± 3 Ω
Recommended excitation	10 V DC
Excitation maximum	15 V DC
Transducer material	Aluminium
Atmospheric protection	Silicon rubber

The characteristics for n_{max} and Y can be reduced separately. Z is proportional or equal to n_{max}.

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

1.3 Essential shapes

The load cell is built according to drawing:
- "XSB 500kg – 2.5 t", drawing number 8337/0-01.

The data plate is secured against removal by sealing or will be destroyed when removed. The data plate mentions at least the information and markings as described in the OIML R60 recommendation.

In the countries where it is mandatory the load cell should bear this test certificate number: TC8337.

2 Seals

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

3 Conditions for conformity assessment

The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in WELMEC 2 Issue 5 Section 11, at the time of EC verification or declaration of EC conformity of type.

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

4 Test reports, evaluation reports and pattern evaluation reports

An overview of performed tests is given in the reports:
- No. NMi-13200048-01 dated 6 June 2013 that includes 27 pages.