Test Certificate
Parts Certificate

Number **TC8648** revision 0
Project number 14200592

Issued by	NMi Certin B.V.
In accordance with	WELMEC 8.8 Issue 2, Paragraph 8.1 of EN 45501:1992/AC:1993, WELMEC 2.4 Issue 2, OIML R 60 (2000).
Producer	Keli Sensing Technology (Ningbo) Co., Ltd. No. 199 Changxing Road, Jiangbei District, Ningbo China
Measuring instrument	A **compression load cell**, with strain gauges, tested as a part of a weighing instrument.
	Designation : YBSCP-SS and YBSCN-SS
	Further properties are described in the annexes: - Description TC8648 revision 0; - Documentation folder TC8648-1.
	An overview of performed tests is given in the annex: - Description TC8648 revision 0.
Issuing Authority	**NMi Certin B.V.** 22 December 2014

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

1.1 Essential parts

Number	Pages	Description	Remark
8648/0-01	1	YBSCP-SS10t~50t	Mechanical and electrical
8648/0-02	1	YBSCN-SS10t~50t	Mechanical and electrical

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

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

1.2 Essential characteristics

Maximum capacity (E_{max})	10 t up to and including 50 t
Minimum dead load	0 t
Accuracy Class	C
Rated Output	2,0 mV/V ± 0,005 mV/V
Maximum number of load cell intervals (n)	3000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	8000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000
Input impedance	400 Ω ± 20 Ω
Temperature range	-10 °C / +40 °C
Fraction p_{LC}	0,7
Humidity Class	CH
Safe overload	150 % of E_{max}
Output impedance	352 Ω ± 3 Ω
Recommended excitation	10 V DC
Excitation maximum	15 V DC
Transducer material	Stainless steel
Atmospheric protection	Hermetically welded

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:

Number	Pages	Description	Remark
8648/0-01	1	YBSCP-SS10t~50t	Mechanical and electrical
8648/0-02	1	YBSCN-SS10t~50t	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 TC8648 (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

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 placing on the market.

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 reports:
- No. NMi-14200592-03 dated 19 December 2014 that includes 51 pages.

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