

Test certificate

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Issued by

NMi Certin B.V.

Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands

In accordance

with

Paragraph 8.1 of the European Standard on Metrological aspects of non-automatic

weighing instruments EN 45501:1992/AC:1993 and by application of the OIML

International Recommendation R 60 (Edition 2000).

Manufacturer

Keli Electric Manufacturing (Ningbo) Co., Ltd.

No. 199 Changxing Road, Jiangbei District

315033 Ningbo City

China

respect of

A bending beam load cell, with strain gauges, tested as a part of a weighing

instrument.

Manufacturer Keli Electric Manufacturing (Ningbo) Co.,

Type UDJ

Characteristics

E_{max} 150 kg up to and including 750 kg

Accuracy class C

In the description number TC7821 revision 0 further characteristics are described.

Description and The load cell is described in the description number TC7821 revision 0 and documentation documented in the documentation folder TC7821-1, appertaining to this

test certificate.

Summary of the test involved: see Appendix number TC7821 revision

NMi Certin B.V. Notified Body number

25 October 2010

Head Certification Board

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Description

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1 General information about the load cell

All properties of the load cell, whether mentioned or not, may not be in conflict with the standard mentioned in the test certificate.

1.1 Essential parts

| Description | Drawing number | Rev. | Remarks |
|---------------|-----------------------|------|-----------------------|
| UDJ150~750 kg | KL/JT-UDJ150~750kg.0A | 0 | Mechanical/Electrical |

Cable:

- The load cell is provided with a 4-wire system:
 - The cable length as is mentioned on the marking plate by the manufacturer.
 - 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

| Fraction | 0.7 150 kg up to and including 750 kg | |
|---|--|--|
| Maximum capacity (E _{max}) | | |
| Humidity classification | SH | |
| Temperature range | -10 °C / +40 °C | |
| Accuracy class | c | |
| Maximum number of load cell verification intervals (n _{max}) | 3000 | |
| Ratio of minimum LC verification interval Y = E _{max} / v _{min} | 7000 | |
| Ratio of minimum dead load output return $Z = E_{max}/2*DR$ | 3000 | |

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

Each produced load cell is supplied with information about its characteristics.



Description

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Minimum dead load : 0 kg

Safe overload : 150 % of E_{max}

Rated Output : $2 \text{ mV/V} \pm 0.2 \text{ mV/V}$

Input impedance : $404 \Omega \pm 10 \Omega$ Output impedance : $350 \Omega \pm 3 \Omega$

Recommended excitation : 10 V DC

Excitation maximum : 15 V DC

Transducer material : Aluminum

Atmospheric protection : Silicone rubber

1.3 Essential shapes

The load cell is built according to drawing:

UDJ150~750 kg, drawing number KL/JT-UDJ150~750kg.0A.

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 document. In the countries where it is mandatory the load cell should bear this test certificate number: TC7821.

Securing:

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



Appendix

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Tests performed for this test certificate:

| Test | Institute | type, version, remarks UDJ 150 kg C3 | |
|--|-----------------|--------------------------------------|--|
| Temperature test and repeatability (20, 40, -10 and 20 °C) | NMi Certin B.V. | | |
| Temperature effect on minimum dead load output (20, 40, -10 and 20 °C) | NMi Certin B.V. | UDJ 150 kg C3 | |
| Creep (20, 40 and –10 °C) | NMi Certin B.V. | UDJ 150 kg C3 | |
| Minimum dead load output return (20, 40 and –10 °C) | NMi Certin B.V. | UDJ 150 kg C3 | |
| Barometric pressure effects at room temperature | NMi Certin B.V. | UDJ 150 kg C3 | |
| Damp heat, steady state: marked SH | NMi Certin B.V. | UDJ 150 kg C3 | |