

Test certificate

Number **TC7690** revision 1 Project number 11200809 Page 1 of 4

Issued by NMi Certin B.V.

In accordance with

Paragraph 8.1 of EN 45501:1992/AC:1993, OIML R60:2000, WELMEC 2.4 Issue 2.

. . .

Manufacturer Keli Sensing Technology (Ningbo) Co., Ltd.

No. 199 Changxing Road, Jiangbei District, Ningbo

China

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

instrument.

Manufacturer : Keli Sensing Technology (Ningbo) Co., Ltd.

Type : AM

Characteristics E_{max} : 60 kg up to and including 500 kg

Accuracy class + + : + C

In the description number TC7690 revision 1 further characteristics are described.

Description and The load cell is described in the description number TC7690 revision 1 and

documentation documented in the documentation folder TC7690-2, appertaining to this

test certificate.

Remarks Summary of the test involved: see Appendix number TC7690 revision 1.

This revision test certificate replaces the earlier version(s), including its

documentation folder.

Issuing Authority + + NMi Certin B.V. Notified Body number 0122

10 April 2012

C. Oosterman Head Certification Board

NMi Certin B.V. Hugo de Grootplein 1 3314 EG Dordrecht The Netherlands T +31 78 632332 certin@nmi.nl www.nmi.nl This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The designation of NMi Certin BV.as Notified Body can be verified at http://ec.europa.eu/enterprise/newapproach/nando/

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see "Regulation objection and appeal against decisions of NMi" www.nmi.nl)

Reproduction of the complete





Description

Number **TC7690** revision 1 Project number 11200809 Page 2 of 4

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
AMI300kg~500kg	KL/JT-AMI300kg- 500kg(HH4202).0 A	0	Mechanical
AMI60kg~300kg	7690/1-01	0	Mechanical/ Electrical

Cable:

- The load cell is provided with a 4-wire system:
 - The cable length shall not be modified.
 - The cable length is mentioned in the accompanying load cell document or on the label;
- 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 P _i	0,7		
Maximum capacity (E _{max})	60 kg up to and including 300 kg	300 kg up to and including 500 kg	
Humidity Class	СН		
Temperature range	-10 °C / +40 °C		
Accuracy Class	С		
Maximum number of load cell intervals (n)	3000		
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	10000	8000	
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000		

The characteristics for \mathbf{n}_{max} and \mathbf{Y} can be reduced separately. \mathbf{Z} is proportional or equal to \mathbf{n}_{max}

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



Description

Number **TC7690** revision 1 Project number 11200809 Page 3 of 4

Minimum dead load : 0 kg

Safe overload : 150% of E_{max}

Rated Output : $2,0 \text{ mV/V} \pm 0,002 \text{ mV/V}$

1.3 Essential shapes

The load cell is built according to drawing:

- "AMI300kg~500kg", drawing number KL/JT-AMI300kg-500kg(HH4202).0A;
- "AMI60kg~300kg", drawing number 7690/1-01.

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 document. In the countries where it is mandatory the load cell should bear this test certificate number: TC7690.

Securing:

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



Appendix

Number **TC7690** revision 1 Project number 11200809 Page 4 of 4

Tests performed for this test certificate:

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	AMI C3 300kg AMI C3 60kg
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	AMI C3 300kg AMI C3 60kg
Creep (20, 40 and –10 °C)	NMi Certin B.V.	AMI C3 300kg AMI C3 60kg
Minimum dead load output return (20, 40 and –10 °C)	NMi Certin B.V.	AMI C3 300kg AMI C3 60kg
Barometric pressure effects at room temperature	NMi Certin B.V.	AMI C3 300kg AMI C3 60kg
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	AMI C3 300kg AMI C3 60kg