

Number **TC7672** revision 0  
Project number 9200810  
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Issued by NMI Certin B.V.  
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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). The applied error fraction  $p_i$ , meant in the paragraph 3.5.4. of the standard is 0.7.

Manufacturer Keli Electric Manufacturing (Ningbo) Co., Ltd.  
No. 199 Changxing Road,  
Jiangbei District, Ningbo  
China

In respect of **A single point load cell**, with strain gauges, tested as a part of a weighing instrument.  
Manufacturer : Keli Electric Manufacturing (Ningbo) Co., Ltd.  
Type : AMIB .... and AMIBK ....

Characteristics  $E_{max}$  : 20 kg up to and including 100 kg  
Accuracy class : C

In the description number TC7672 revision 0 further characteristics are described.

Description and documentation The load cell is described in the description number TC7672 revision 0 and documented in the documentation folder TC7672-1, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC7672 revision 0

The Notified Body No. 0122  
NMI Certin, 17 December 2009



C. Oosterman  
Head Certification Board

## 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
AMIB 20 kg ~ 100 kg	KL/JT-AMIB 20 kg ~ 100 kg 0A	0	Mechanical/ Electrical
AMIBK 20 kg ~ 100 kg	KL/JT-AMIBK 20 kg ~ 100 kg 0A	0	Mechanical/ Electrical

Cable:

- The load cell is provided with a 4-wire system.  
The cable length has to be approximately 3 meters.  
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 should be a shielded cable, the shield is not connected to the load cell.

### 1.2 Essential characteristics

Type		AMIB .... and AMIBK ....
Maximum capacity	$E_{max}$	20 kg up to and including 100 kg
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	$Y = E_{max} / v_{min}$	10000
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 mV/V $\pm$ 0.2 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:

- AMIB 20 kg ~ 100 kg, drawing number KL/JT-AMIB 20 kg ~ 100 kg 0A;
- AMIBK 20 kg ~ 100 kg, drawing number KL/JT-AMIBK 20 kg ~ 100 kg 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: TC7672.

Securing:

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

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.	AMIB 20 kg C3 SH
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	AMIB 20 kg C3 SH
Creep (20, 40 and -10 °C)	NMi Certin B.V.	AMIB 20 kg C3 SH
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V.	AMIB 20 kg C3 SH
Barometric pressure effects at room temperature	NMi Certin B.V.	AMIB 20 kg C3 SH
Damp heat, steady state: marked SH	NMi Certin B.V.	AMIB 20 kg C3 SH