

Number **TC7838** revision 0
Project number 10200844
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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).

Manufacturer Zhonghang Electronic Measuring Instrument Co., Ltd. (ZEMIC)
Xinyuan Rd. North Zone of EDZ, Hanzhong
723000, Shaanxi
China

In respect of **A single point load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Zhonghang Electronic Measuring Instrument Co., Ltd (ZEMIC)
Type : L6E-xx-xx-xxx-XX – Series

Characteristics E_{max} : 50 kg up to and including 500 kg
Accuracy class : C

In the description number TC7838 revision 0 further characteristics are described.

Description and documentation The load cell is described in the description number TC7838 revision 0 and documented in the documentation folder TC7838-1, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC7838 revision 0

Issuing Authority

NMI Certin B.V. Notified Body number 0122
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Head Certification Board

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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
L6E Load cells Catalogue for using	12102010103	0	Mechanical / Electrical 5 pages

Cable:

- The load cell is provided with a 4-wire system;
 - The cable length is mentioned on the load cell, see chapter "Naming example" in the L6E Load cells Catalogue for using;
 - 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 may be connected to the load cell;

1.2 Essential characteristics

Type	L6E-xx-xx-xxx-XX – Series		
Humidity classification	CH		
Fraction p_{lc}	0.7		
Temperature range	-10 °C / +40 °C		
Maximum capacity	E_{max}	50 kg up to and including 100 kg	150 kg up to and including 500 kg
Accuracy class	C		
Maximum number of load cell verification intervals	n_{max}	5000	
Ratio of minimum LC verification interval	$Y = E_{max} / v_{min}$	20000	
Ratio of minimum dead load output return	$Z = E_{max} / 2 * DR$	7000	5500

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	: 406 Ω \pm 6 Ω
Output impedance	: 350 Ω \pm 3 Ω
Recommended excitation	: 5 - 12 V AC/DC
Excitation maximum	: 18 V AC/DC
Transducer material	: Aluminum alloy
Atmospheric protection	: Silicon rubber

1.3 Essential shapes

The load cell is built according to drawing:

- L6E Load cells Catalogue for using, drawing number 12102010103.

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: TC7838.

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.	L6E-C5-50kg-3 B L6E-C5-150kg-3 B
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	L6E-C5-50kg-3 B L6E-C5-150kg-3 B
Creep (20, 40 and -10 °C)	NMi Certin B.V.	L6E-C5-50kg-3 B L6E-C5-150kg-3 B
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V.	L6E-C5-50kg-3 B L6E-C5-150kg-3 B
Barometric pressure effects at room temperature	NMi Certin B.V.	L6E-C5-50kg-3 B L6E-C5-150kg-3 B
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	L6E-C5-50kg-3 B L6E-C5-150kg-3 B