

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	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 : BM11-xx-xxx-xx Series
Characteristics	E_{max} : 10 kg up to and including 500 kg Accuracy class : C In the description number TC7968 revision 0 further characteristics are described.
Description and documentation	The load cell is described in the description number TC7968 revision 0 and documented in the documentation folder TC7968-1, appertaining to this test certificate.
Remarks	Summary of the test involved: see Appendix number TC7968 revision 0.

Issuing Authority

NMi Certin B.V. Notified Body number 0122
24 August 2011
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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
BM11 Load cells Catalogue for using	7968/0-01	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 BM11 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

Fraction P_i	: 0,7
Maximum capacity (E_{max})	: 10 kg up to and including 500 kg
Humidity Class	: CH
Temperature range	: -10 °C / +40 °C
Accuracy Class	: C
Maximum number of load cell intervals (n)	: 4000
Ratio of minimum LC Verification interval	: 15000
$Y = E_{max} / V_{min}$	
Ratio of minimum dead load output return	: 4000
$Z = E_{max} / (2 * DR)$	

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	: 2,0 mV/V \pm 0.02 mV/V
Input impedance	: 460 Ω \pm 50 Ω
Output impedance	: 350 Ω \pm 3.5 Ω
Recommended excitation	: 5 - 12 V DC/AC
Excitation maximum	: 18 V DC/AC
Transducer material	: Stainless steel
Atmospheric protection	: Hermetically welded

1.3 Essential shapes

The load cell is built according to drawing:

- "BM11 Load cells Catalogue for using", drawing number 7968/0-01.

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: TC7968.

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.	BM11-C4-10kg-3B BM11-C4-100kg-3B
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	BM11-C4-10kg-3B BM11-C4-100kg-3B
Creep (20, 40 and -10 °C)	NMi Certin B.V.	BM11-C4-10kg-3B BM11-C4-100kg-3B
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V.	BM11-C4-10kg-3B BM11-C4-100kg-3B
Barometric pressure effects at room temperature	NMi Certin B.V.	BM11-C4-10kg-3B
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	BM11-C4-10kg-3B