

Test certificate

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Issued by

NMi Certin B.V.

Hugo de Grootplein 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).

Manufacture

Zhonghang Electronic Measuring Instruments Co., Ltd.

No. 66, Zhongyuan Road, Puzhen, Hanzhong

723007, Shaanxi

China

respect of

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

instrument.

Manufacturer

Zhonghang Electronic Measuring Instruments Co., Ltd

Type

B8Q Series

Characteristics

Emax

500 kg up to and including 2000 kg

Accuracy class

C

In the description number TC7809 revision 0 further characteristics are described

Description and The load cell is described in the description number TC7809 revision 0 and documentation documented in the documentation folder TC7809-1, appertaining to this

test certificate.

Summary of the test involved: see Appendix number TC7809 revision

NMi Certin B.V. Notified Body number 01

20 September 2010

C. Oosterman

Head Certification Board

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that no liability is accepted and that the applicant shall indemnify third-party liability.

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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
B8Q Load cells Catalogue for using	24082010002	0	Mechanical / Electrical 6 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 B8Q Load cells Catalogue for using;
- 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

Туре		B8Q		
Humidity classification		СН		
Fraction p _k		0.7		
Temperature range		-10 °C / +40 °C		
Maximum capacity	Emax	500 kg up to and including 2000 kg		
Accuracy class		С		
Maximum number of load cell verification intervals	n _{max}	3000		
Ratio of minimum LC verification interval	Y = E _{max} / v _{min}	15000		
Ratio of minimum dead load output return	Z = E _{max} /2*DR	6000		

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

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Minimum dead load : 0 kg

Safe overload : 150 % of E_{max}

Rated Output : $2 \text{ mV/V} \pm 0.002 \text{ mV/V}$

Input impedance: $1106 \Omega \pm 5 \Omega$ Output impedance: $1000 \Omega \pm 3 \Omega$

Recommended excitation : 5 - 12 V AC/DC

Excitation maximum : 18 V AC/DC

Transducer material : Stainless Steel

Atmospheric protection : Silicon rubber

1.3 Essential shapes

The load cell is built according to drawing:

- B8Q Load cells Catalogue for using, drawing number 24082010002.

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: TC7809.

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
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	B8Q-C3-500 kg – 3B
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	B8Q-C3-500 kg – 3B
Creep (20, 40 and –10 °C)	NMi Certin B.V.	B8Q-C3-500 kg – 3B
Minimum dead load output return (20, 40 and –10 °C)	NMi Certin B.V.	B8Q-C3-500 kg – 3B
Barometric pressure effects at room temperature	NMi Certin B.V.	B8Q-C3-500 kg – 3B
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	B8Q-C3-500 kg – 3B