

Number **TC8013** revision 0

Project number 11200684

Page 1 of 4

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 Instruments Co., Ltd.(ZEMIC)
XinYuan Rd. North Zone of EDZ, Hanzhong,
723000 Shaanxi
China

In respect of **A double ended shear beam Load Cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Zhonghang Electronic Measuring Instruments Co., Ltd. (ZEMIC)
Type : H9D-xx-xxx-xxx-xx Series

Characteristics E_{max} : 9000 kg up to and including 35000 kg
Accuracy class : C

In the description number TC8013 revision 0 further characteristics are described.

Description and documentation The load cell is described in the description number TC8013 revision 0 and documented in the documentation folder TC8013-1, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC8013 revision 0.

Issuing Authority **NMI Certin B.V. Notified Body number 0122**
24 October 2011



C. Oosterman
Head Certification Board

NMI Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands
T +31 78 6332332
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 document only is permitted

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
H9D Load Cells Catalogue for using	8013/0-01	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 H9D 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 is not connected to the load cell.

1.2 Essential characteristics

Type	H9D-xx-xxx-xxx-xx Series	
Humidity classification	CH	
Fraction p_{lc}	0,7	
Temperature range	-10 °C / +40 °C	
Maximum capacity	E_{max}	9000 kg up to and including 35000kg
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	$Z = E_{max} / 2 * DR$	5000

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

Number **TC8013** revision 0
Project number 11200684
Page 3 of 4

Minimum dead load	: 0 kg
Safe overload	: 150% of E_{\max}
Rated Output	: $3 \pm 0,008$ mV/V
Input impedance	: $700 \Omega \pm 7 \Omega$
Output impedance	: $703 \Omega \pm 4 \Omega$
Recommended excitation	: 5-12 V DC/AC
Excitation maximum	: 18 V DC/AC
Transducer material	: Alloy steel
Atmospheric protection	: Silicon rubber

1.3 Essential shapes

The load cell is built according to drawing:

- H9D Load Cells Catalogue for using, drawing number 8013/00-01.

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: TC8013.

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.	H9D-C5 -9000 kg-6B
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	H9D-C5 -9000 kg-6B
Creep (20, 40 and -10 °C)	NMi Certin B.V.	H9D-C5 -9000 kg-6B
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V.	H9D-C5 -9000 kg-6B
Barometric pressure effects at room temperature	NMi Certin B.V.	H9D-C5 -9000 kg-6B
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	H9D-C5 -9000 kg-6B