

Nederlands Meetinstituut

Test certificate

Number **TC5703** revision 2
 Project number 10128509
 Page 1 of 4

Issued by NMI Certin B.V.
 Hugo de Grootplein 1
 3314 EG Dordrecht
 The Netherlands

Notified Body Number 0122

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 1991). The applied error fraction p_i , meant in the paragraph 3.5.4. of the standard is 0.7.

Applicant Tedeo-Huntleigh International Ltd.
 5a Hatzoran St.
 Netanya, 42506
 ISRAEL

In respect of The model of a **bending beam load cell**, with strain gauges, tested as a part of a weighing instrument.
 Manufacturer : Tedeo-Huntleigh
 Type : 1130

Characteristics

Maximum capacity (E_{max})	7, 7.5, 15, 20, 30, 35, 50, 60, and 75 kg			7, 7.5, 15, 20, 30 and 35 kg
Accuracy Class	C			
Maximum number of load cell intervals (n)	1000	2000	3000	6000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	2000	4000	15000	15000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	-----			14000

In the description TC5703 revision 2 further characteristics are described.

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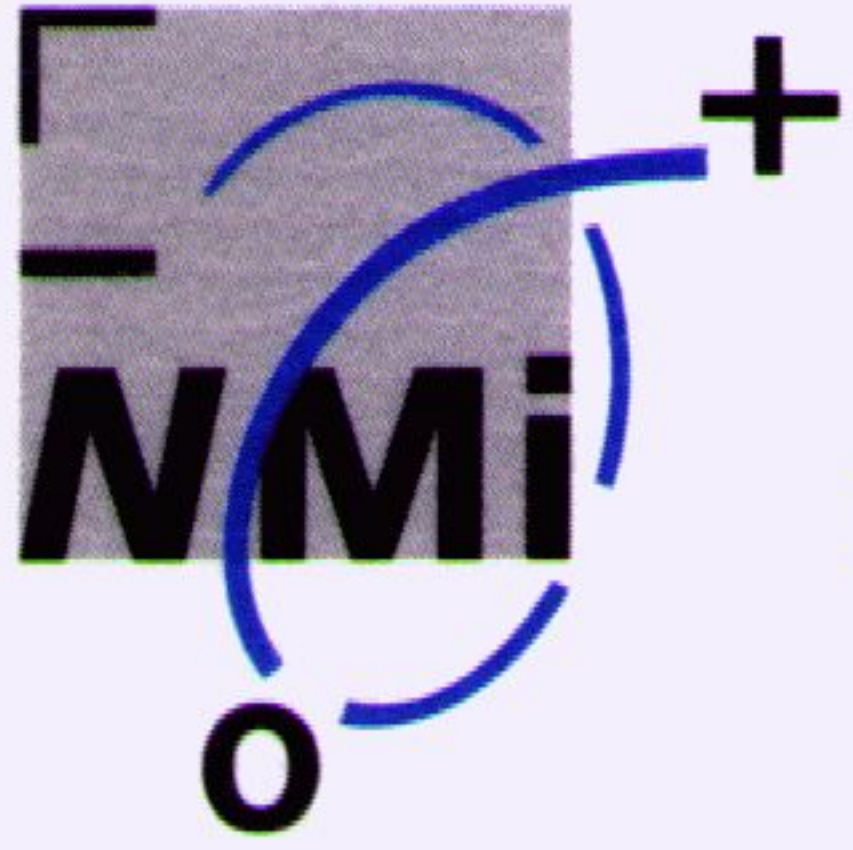
NMI B.V. (Chamber of Commerce Haaglanden
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Page 2 of 4

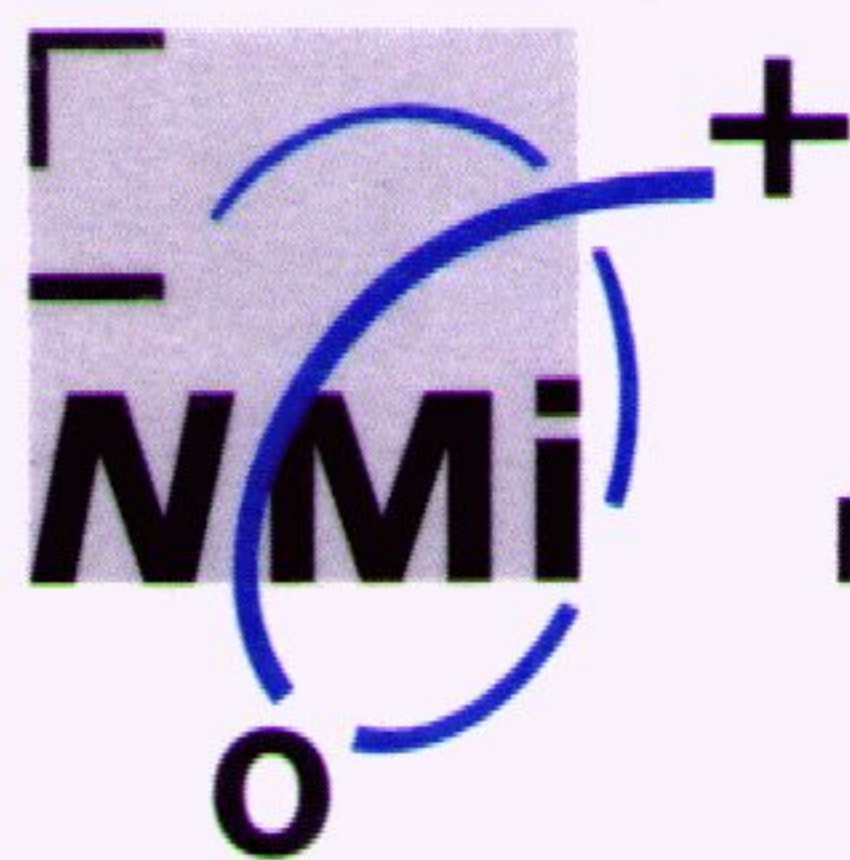
Description and documentation The load cell is described in the description number TC5703 revision 2 and documented in the documentation folder number TC5703-2, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC5703 revision 2
This revision replaces the earlier version, except for its documentation folder

Delft, 26 February 2001
NMI Certin B.V.

W.A.C.M. van Leeuwen
Manager Certification





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
General dimensions	196.000.00-3	E	Mechanical
Wiring Schematic diagram	196.200.00-2	F	Electrical

Cable:

The load cell is provided with a 4 or 6 wire system.

Because no "remote-sensing" is used by the 4-wire system that cable length has to correspond with the cable length mentioned on the descriptive plate of the load cell.

The cable should be a shielded cable, the shield may be connected to the load cell.

1.2 Essential characteristics

Minimum dead load	: 0 kg
Safe overload	: 150 % of E_{max}
Rated Output	: $2 \text{ mV/V} \pm 0.2 \text{ mV/V}$
Input impedance	: $385 \Omega \pm 10 \Omega$
Output impedance	: $351 \Omega \pm 5 \Omega$
Recommended excitation	: 10 V DC/AC
Excitation maximum	: 15 V DC/AC
Transducer material	: Stainless Steel
Atmospheric protection	: Adhesive Silicone Rubber (IP66 or IP67)

1.3 Essential shapes

The load cell is built according to drawings:

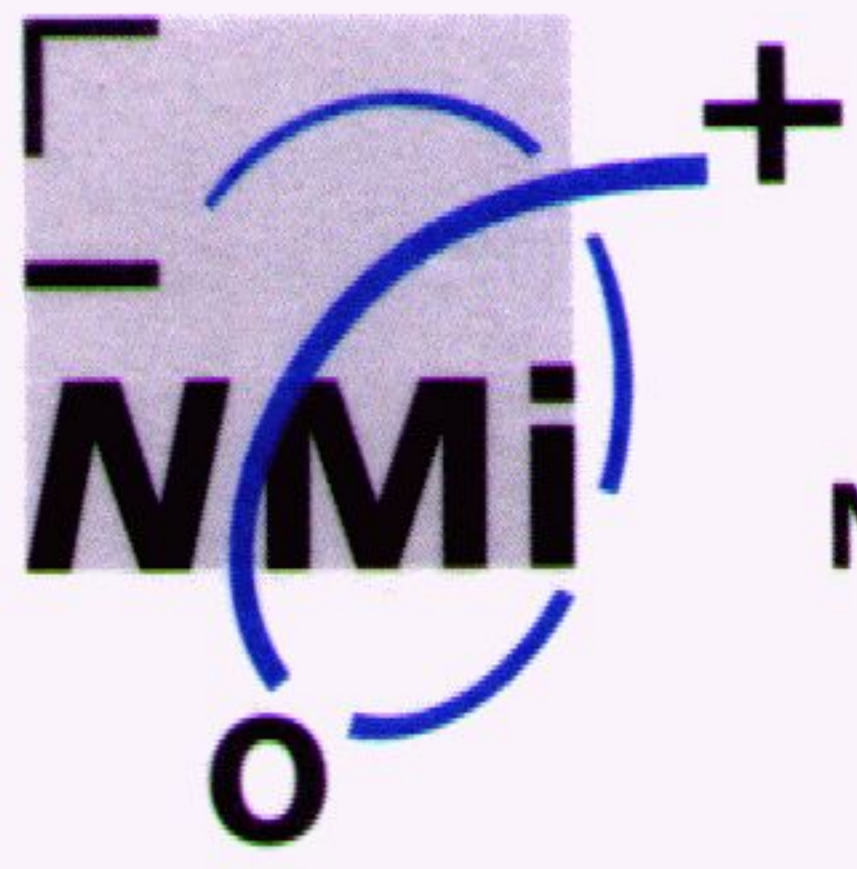
- General dimensions, drawing number 196.000.00-3
- Wiring Schematic diagram, drawing number 196.200.00-2

The data plate is sealed against removal 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: TC5703.

Securing:

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





Tests carried out for this test certificate: Model 1130

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	7 kg and 15 kg C3
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	7 kg and 15 kg C3
Creep test (20, 40 and -10 °C)	NMi Certin B.V.	7 kg and 15 kg C3
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V.	7 kg and 15 kg C3
Barometric pressure test at room temperature	NMi Certin B.V.	15 kg C3
Humidity test	NMi Certin B.V.	15 kg C3 and 7 kg C6

