

Nederlands Meetinstituut

Test certificate

Number **TC5623** revision 2
Project number 10127265
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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 Tedea-Huntleigh Europe Ltd.
37, Portmanmoor Road
Cardiff, CF24 5HE
United Kingdom

In respect of The model of a **bending beam load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Tedea-Huntleigh
Type : 1510

Characteristics

Maximum capacity (E_{max})	100, 250 and 500 kg			
Accuracy Class	C			
Maximum number of load cell intervals (n)	1000	2000	3000	4000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	4000	8000	12000	12000

In the description TC5623 revision 2 further characteristics are described.

Description and documentation The load cell is described in the description number TC5623 revision 2 and documented in the documentation folder number TC5623-2, appertaining to this test certificate.

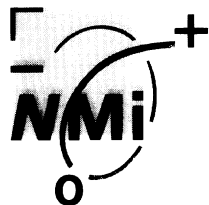
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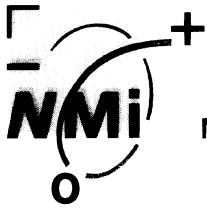
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Remarks Summary of the test involved: see Appendix number TC5623 revision 2.
This revision replaces the earlier version, except for its documentation folder.

Delft, 24 April 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
Model 1510	2BY006	1	--
Model 1510	2BY006	2	--

Cable:

- The load cell is provided with a 6-wire system.
- The cable should be a shielded cable, the shield is 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 mV/V
- Input impedance : $380 \Omega \pm 10 \Omega$
- Output impedance : $350 \Omega \pm 3 \Omega$
- Recommended excitation : 10 V DC/AC
- Excitation maximum : 15 V DC/AC
- Transducer material : Stainless Steel
- Atmospheric protection : Hermetically

1.3 Essential shapes

The load cell is built according to drawing: Model 1510, drawing number 2BY006

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: TC5623.

Securing:

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

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Tests carried out for this test certificate:

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V	Type 1510, C4, 100 kg
Temperature effect on minimum dead load out-put (20, 40, -10 and 20 °C)	NMi Certin B.V	Type 1510, C4, 100 kg
Creep test (20, 40 and -10 °C)	NMi Certin B.V	Type 1510, C4, 100 kg
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V	Type 1510, C4, 100 kg
Barometric pressure test at room temperature	NMi Certin B.V	Type 1510, C4, 100 kg
Humidity test	NMi Certin B.V.	Type 1510, C4, 100 kg