

Nederlands Meetinstituut

Test certificate

Number **TC5506** revision 2

Project number 302721

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 2000). The applied error fraction p_i , meant in the paragraph 3.5.4. of the standard is 0.7.

Applicant
Vishay Tedea-Huntleigh Ltd.
5a Hatzoran street,
Netanya 42506
Israel

In respect of The model of a **single point, bending beam load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Vishay Tedea-Huntleigh Ltd.
Type : 1242

Characteristics

Maximum capacity (E_{max})	50, 100, 150, 200 and 250 kg					
Accuracy Class	C					
Maximum number of load cell intervals (n)	1000	2000	3000	4000	5000	6000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	1400	2300	20000	20000	20000	20000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	15000					

In the description TC5506 revision 2 further characteristics are described.

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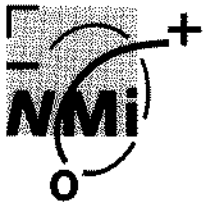
Page 2 of 4

Description and documentation The load cell is described in the description number TC5506 revision 2 and documented in the documentation folder number TC5506-1, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC5506 revision 2
This revision test certificate replaces the earlier versions, except for its documentation folder.

Delft, 24 March 2003
NMI Certin B.V.

P.P.M. van Enckevort
Manager Certification Delft



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	186.000.00-3	0	Mechanical

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 mV/V \pm 0.2 mV/V
Input impedance	: 415 Ω \pm 15 Ω
Output impedance	: 353 Ω \pm 5 Ω
Recommended excitation	: 10 V DC/AC
Excitation maximum	: 15 V DC/AC
Transducer material	: Aluminium or Anodised Aluminium
Atmospheric protection	: Adhesive Silicone Rubber

1.3 Essential shapes

The load cell is built according to drawing: General dimensions, drawing number 186.000.00-3.

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: TC5506

Securing:

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



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	1242, 50kg, C6
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V	1242, 50kg, C6
Creep test (20, 40 and -10 °C)	NMi Certin B.V	1242, 50kg, C6
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V	1242, 50kg, C6
Barometric pressure test at room temperature	NMi Certin B.V	1242, 50kg, C6
Humidity test	NMi Certin B.V.	1242, 50kg, C6