

Issued by NMI Certin B.V.
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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.

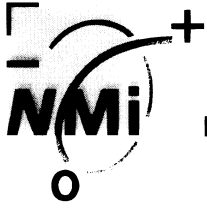
Applicant Tedea-Huntleigh Europe Ltd.
37 Portmanmoor Road
Cardiff, CF24 5HE
United Kingdom

In respect of The model of a compression load cell, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Tedea-Huntleigh
Type : 220 - 230

Characteristics

Maximum Capacity (E_{max})	5, 10, 20, 25, 30, 40, 50 and 60 t				5, 10, 20 and 25 t	
Accuracy Class	C				C	
Maximum number of load cell intervals (n)	1000	2000	3000	4000	5000	6000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$	5000	10000	14000	14000	14000	14000

In the description TC2584 revision 8 further characteristics are described.



Nederlands Meetinstituut

Test certificate

Number **TC2584** revision 8
Project number 208724
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Description and documentation The load cell is described in the description number TC2584 revision 8 and documented in the documentation folder number TC2584-6, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC2584 revision 8.
This revision test certificate replaces the earlier versions, except for its documentation folder.

Delft, 06 August 2002
NMI Certin B.V.

P.P.M. van Enkevort
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
Model 220/230 Technical construction drawing	2AM013	2	--
Model 220 Technical construction drawing	2AM013	4	--
Model 220 5T, 10T & 20T Load Cell	2BR038	4	--
Model 220 5T, 10T & 20T Load Cell	2BR038	5	--
Model 220 5T, 10T & 20T	2AM019	2	--
Model 220 5T, & 10T	2AM019	3	--
Model 220 Load Cell specification sheet	2BR007	10	--

Cable:

The load cell is provided with a 6-wire cable.

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 only for capacities 5, 10, 20, 25, 30, 40, 50 and 60 t 2.6 mV/V for capacity of 40 t
Input impedance	: $1065 \Omega \pm 50 \Omega$
Output impedance	: 1000 Ω
Recommended excitation	: 10 V DC/AC
Excitation maximum	: 15 V DC/AC
Transducer material	: Stainless Steel
Atmospheric protection	: hermetically sealed

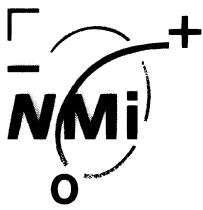
1.3 Essential shapes

The load cell is built according to drawings with numbers: 2AM013 revision 2 & 4, 2BR038 revision 4 & 5, 2AM019 revision 2 & 3 and 2BR007 revision 10.

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: TC2584.

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:

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V	5t C6, 5t C4 and 25t C3
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V	5t C4 and 25 C3t
Creep test (20, 40 and -10 °C)	NMi Certin B.V	5t C6, 5t C4 and 25t C3
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V	5t C6, 5t C3 and 25t C3
Barometric pressure test at room temperature	NMi Certin B.V	5t C6 and 25t C3
Humidity test	NMi Certin B.V.	5t C6 and 25t C3