Test certificate

Nederlands Meetinstituut

Number **TC2274** Revision 2
Project number 10046749

Issued by
NMi IJkwezen B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands

Notified body number 122

In accordance with
Paragraph 8.1 of the European Standard on Metrological aspects of non-automatic weighing instrument EN 45501:1992 and by application of the OIML International Recommendation R 60 (Edition 1991). The applied error fraction pi, meant in paragraph 3.5.4. of the standard is 0.7.

Applicant
Tedea-Huntleigh International Ltd,
60 Medinat Hayehudim St.
Herzliya 46120
ISRAEL

In respect of
The model of a **load cell** with strain gauges, tested as part of a weighing instrument (for NAWI class (III) or (IIII)):
manufacturer : TEDEA HUNTLEIGH
type : 1320

Characteristics

Maximum Capacity (E_{max})	1, 1.5 and 2 ton		
Accuracy Class	C		
Maximum number of load cell intervals (n)	1000	2000	3000
Minimum load cell verification interval (V_{min})	E_{max}/ 3333	E_{max}/ 6667	E_{max}/ 10000

In the description TC2274 Revision 2 further essential characteristics are described.

Description and Documentation
The load cell is described in the description number TC2274 Revision 2 and document in the documentation folder number TC2274-2, both appertaining to this test certificate.

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Remarks
- This extention test certificate replaces the earlier versions except for its documentation folder if indicated above.
- Summary of tests involved: see Appendix number 1.

Dordrecht, 11 September 1995
NMi IJkwezen B.V.

M. Charité
Director

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 document.

1.1 Essential parts

Mechanical :
The load cell is based on the principle of a beam and is provided with four active strain gauges conform drawing 1000.000.85-2.

Compensation and adjustment elements :
The bridge of Wheatstone includes compensation- and adjustment resistors to compensate the effect of temperature drift, adjust the sensitivity and the in- and output resistance.

Cable:
The load cell is provided with 6-wire system.
Because remote-sensing is used the 6-wire cable length can vary. The standard lenght is 6 meter.
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 ± 10%
Input impedance	: 415 ± 15 ohm
Output impedance	: 350 ± 3 ohm
Excitation maximum	: 15 V DC or AC
Recommended excitation	: 10 V DC or AC
Construction	: two beam aluminum parallelogram

1.3 Essential shapes

Sealing:
- The data plate is sealed against removal or will be destroyed when removed. The data plate consist at least the following information:
- manufacturer's mark, or name;
- E_{max} of the load cell;
- standard classification in the form C1 , C2 or C3;
- manufacturer's designation;
- serial number and year of manufacture;
- the number of this test certificate, TC2274.

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 on a load cell with a capacity of 1000 kg, class C3.

Test	Institute	Approved (+ or -)
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	+
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C) *	NMi Certin B.V.	+
Creep test (20, 40 and -10 °C)	NMi Certin B.V.	+
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V.	+
Barometric pressure test at room temperature	/	Not Applicable for a beam load cell
Humidity test	NMi Certin B.V.	+

* For the extention "the temperature effect on mimimum dead load output test" was performed on a load cell with the new specifications. The load cell was a C3 with a capacity of 1000 kg.