Test certificate

Nederlands Meetinstituut

Number **TC2792** Revision 1
Project number 10056290

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 p_i, meant in paragraph 3.5.4. of the standard is 0.7.

Applicant

Tedea - Huntleigh International Ltd.
60 Medinat Hayehudim
Herzliya 46120
Israel

In respect of

The model of a **single point, beam load cell** with strain gauges, tested as part of a weighing instrument (for NAWI class (III) or (IIII)):
Manufacturer : Tedea - Huntleigh
Type : 1022

Characteristics

Maximum Capacity (E_{max})	3, 5, 7, 10, 15, 20, 30 and 35 kg			
Accuracy Class	C			
Maximum number of load cell intervals (n)	1000	2000	3000	4000
Minimum load cell verification interval (V_{min})	E_{max} / 3333	E_{max} / 6666	E_{max} / 10000	E_{max} / 12000

In the description TC2792 Revision 1 further essential characteristics are described.

Description and Documentation

The load cell is described in the description number TC2792 Revision 1 and documented in the documentation folder number TC2792-1, appertaining to this test certificate.

Remarks

- Summary of tests involved: see Appendix number TC2792 Revision 1.
- This revision replaces the earlier version with number TC2792 Revision 0.

Dordrecht, 18 April 1996
NMi IJkwezen B.V.

M. Charité
Director

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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 1022 Load cell	187.000.00-3	D	Mechanical
Wired sensor	187.200.00-2	B	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 be approximately 1 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 ± 0.2 mV/V
Input impedance : 415 Ω ± 15 Ω
Output impedance : 350 Ω ± 3 Ω
Recommended excitation : 10 V DC/AC
Excitation maximum : 15 V DC/AC
Transducer material : Anodized Aluminium or Non-Anodized Aluminium
Atmospheric protection : Adhesive Silicone Rubber

1.3 Essential shapes

Sealing:
- The data plate is sealed against removal or will be destroyed when removed. The data plate consists of at least the following information:
  - manufacturer's mark and name;
  - E_{max} of the load cell;
  - standard classification in the form C1, C2, C3 or C4;
  - manufacturer's designation;
  - year of manufacture;
  - the number of this test certificate, TC2792.

The serial number is engraved in the load cell body.

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

Nederlands Meetinstituut

Appendix

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Tests carried out for this test certificate on the load cell, type **1022**

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	3 kg and 30 kg
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	3 kg and 30 kg
Creep test (20, 40 and -10 °C)	NMi Certin B.V.	3 kg and 30 kg
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V.	3 kg and 30 kg
Barometric pressure test at room temperature	NMi Certin B.V.	Not applicable
Humidity test	NMi Certin B.V.	3 kg