Test certificate

Nederlands Meetinstituut

Number **TC2555** Revision 0
Project number 10011714

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
Revere Transducers Europe BV
Ramshoorn 7
4824 AG Breda
The Netherlands

In respect of
The model of a **"S"-shape, bending/shear load cell** with strain gauges, tested as part of a weighing instrument (for NAWI class (III) or (IIII)):
Manufacturer : Revere Transducers
Type : BSP

Characteristics

Maximum Capacity (E_{max})	50, 125, 250, 500, 1250, 2500 and 5000 kg		
Accuracy Class	C1	C2	C3
Maximum number of load cell intervals (n)	1000	2000	3000
Minimum load cell verification interval (V_{min})	E_{max}/5000	E_{max}/10000	E_{max}/10000

In the description TC2555 Revision 0 further essential characteristics are described.

Description and Documentation
The load cell is described in the description number TC2555 Revision 0 and documented in the documentation folder number TC2555-1, appertaining to this test certificate.

Remarks
Summary of tests involved: see Appendix number TC2555.

Dordrecht, 5 January 1995
NMi IJkwezen B.V.
I/o

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
Assembly BSP low capacity	E-404007	0	Sheet 1 of 3
Assembly BSP middle capacity	E-404007	0	Sheet 2 of 3
Assembly BSP high capacity	E-404007	0	Sheet 3 of 3

Cable:
The load cell is provided with a 4-wire system.
Because no "remote-sensing" is used the cable length has to be ca. 10 meters.
The cable should be a shielded cable, the shield is not connected to the load cell.

Nomenclature:

BSP-0,05t-C4-SC/EEx(i)/length xxx-yyy-Cz-options

x	Model number	Options:	SC	Current calibration
y	Standard capacities		EEx(i)	Intrinsically safe (500 V rms test passed)
z	Accuracy designation		length	Cable length not standard

1.2 Essential characteristics

Minimum dead load	: 0 kg
Safe overload	: 150 % of E_{max}
Rated output	: 3 mV/V ± 0.5 % for the capacity's 50, 125, 250, 500 and 1250 kg
	: 2 mV/V ± 0.5 % for the capacity's 2500 and 5000 kg
Input impedance	: 350 Ω ± 3.5 Ω
Output impedance	: 350 Ω ± 3.5 Ω
Recommended excitation	: 5 / 15 V AC/DC
Excitation maximum	: 18 V AC/DC
Transducer material	: Stainless Steel 17-4 PH
Atmospheric protection	: metal tube and plate

The load cells are meant to be used only for tension

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, or name;
- E_{max} of the load cell;
- standard classification in the form C1, C2, C3
- manufacturer's designation;
- serial number and year of manufacture;
- the number of this test certificate, TC2555.

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 the load cell, type BSP-0,05t-C3-SC and BSP-1,25t-C3-SC.

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	BSP-0,05t-C3-SC and BSP-1,25t-C3-SC
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	BSP-0,05t-C3-SC and BSP-1,25t-C3-SC
Creep test (20, 40 and -10 °C)	NMi Certin B.V.	BSP-0,05t-C3-SC and BSP-1,25t-C3-SC
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V.	BSP-0,05t-C3-SC and BSP-1,25t-C3-SC
Barometric pressure test at room temperature	NMi Certin B.V.	BSP-0,05t-C3-SC
Humidity test	NMi Certin B.V.	BSP-0,05t-C3-SC