

Nederlands Meetinstituut

# Test certificate

Number **TC5100** Revision 0  
Project number 10052242  
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Issued by NMI Certin 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/AC:1993 and by application of the OIML International Recommendation R 60 (Edition 1991). The applied error fraction  $\pi_i$ , meant in paragraph 3.5.4. of the standard is 0.7.

Applicant Revere Transducers  
Ramshoorn 7  
4802 HX Breda  
The Netherlands

In respect of The model of a **Bending-beam load cell** with strain gauges, tested as part of a weighing instrument (for NAWI class **III** or **III**):  
Manufacturer : Revere Transducers  
Type : ALC

Characteristics

Maximum Capacity ( $E_{max}$ )	250, 500, 1000 and 2000 kg			
Accuracy Class	C1	C2	C3	C3 (MR)
Maximum number of LC intervals (n)	1000	2000	3000	3000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$	7000	7000	10000	20000

In the description TC5100 revision 0 further characteristics are described.

Description and documentation The load cell is described in the description number TC5100 revision 0 and documented in the documentation folder number TC5100-1, appertaining to this test certificate.

Remarks Summary of tests involved: see Appendix number TC5100 revision 0.

Dordrecht, 5 August 1997

NMI Certin B.V.

*KC*

A.J. Nederlof  
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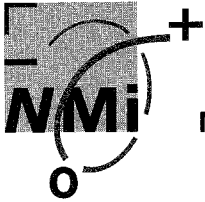
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BY STERLAB  
Reg. nr. I 029



## 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
Finished Produkt All Capacities ALC's	899628	-	sheet 1 and 2

#### Cable:

The load cell is provided with a 4-wire system. For the 4 wire system the cable length has to be 3 meter (standard) or has to correspond with the length mentioned on the descriptive plate. The cable should be a shielded cable.

#### Nomenclature:

xxx-yyy-Cz-option

x : Model number

y : Standard capacity

z : Accuracy designation

Option: SC : Current calibration

EEx(i) : Intrinsically safe (500 V rms test passed)

length : Cable length not standard

### 1.2 Essential characteristics

Minimum dead load	: 0 kg
Safe overload	: 150 % of $E_{max}$
Rated output	: 2 mV/V $\pm$ 0.02 mV/V
Input impedance	: 1000 $\Omega$ $\pm$ 10 $\Omega$
Output impedance	: 1000 $\Omega$ $\pm$ 10 $\Omega$
Recommended excitation	: 5 - 12 VDC/AC
Excitation maximum	: 15 VDC/AC
Transducer material	: Stainless Steel 17-4 PH
Atmospheric protection	: Potted

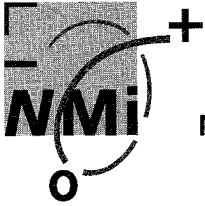
### 1.3 Essential shapes

The data plate is sealed against removal or will be destroyed when removed. The data plate contains 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, TC5100.

#### Securing:

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



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# Appendix

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Tests carried out for this test certificate on the load cell, type HCB and ALC

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	250 kg, 500 kg (HCB)
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	250 kg, 500 kg (HCB)
Creep test (20, 40 and -10 °C)	NMi Certin B.V.	250 kg, 500 kg (HCB)
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V.	250 kg, 500 kg (HCB)
Barometric pressure test at room temperature	NMi Certin B.V.	500 kg (HCB)
Humidity test	NMi Certin B.V.	250 kg, 500 kg (HCB) 250 kg (ALC)