

Nederlands Meetinstituut

Test certificate

Number **TC2856** Revision 0
Project number 10061785
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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 π , meant in paragraph 3.5.4. of the standard is 0.7.

Applicant MASTER K
38 avenue des Frères Montgolfier
69680 Chassieu
FRANCE

In respect of The model of a **dual Bending beam load cell** with strain gauges, tested as part of a weighing instrument (for NAWI class **III** or **III**):
Manufacturer : MASTER K
Type : FLX

Characteristics

Maximum Capacity (E_{max})	50.5 , 101 and 202 kg		
Accuracy Class	C		
Maximum number of load cell intervals (n)	3000	5000	6000
Minimum load cell verification interval (V_{min})	$E_{max} / 10100$	$E_{max} / 10100$	$E_{max} / 10100$

In the description TC2856 Revision 0 further essential characteristics are described.

Description and Documentation The load cell is described in the description number TC2856 Revision 0 and documented in the documentation folder number TC2856-1, appertaining to this test certificate.

Nederlands Meetinstituut
Hugo de Grootplein 1
3314 EG Dordrecht (NL)
Telephone +31 786332332
Telefax +31 786332309
E-mail NMI@NMI.nl

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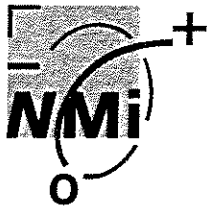
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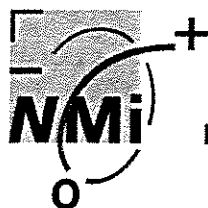
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Remarks Summary of tests involved: see Appendix number TC2856 revision 0.

Dordrecht, 4 September 1996
NMI Certin B.V.

A.J. Nederlof
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.

1.1 Essential parts

Description	Drawing number	Rev.	Remarks
FLX outline drawing & dimensions	102629/6D	0	Mechanical
Full bridge circuit FLX type load cell	102631/6D	0	Electrical

Cable:

The load cell is provided with a 4-wire system.

Because no "remote-sensing" is used the cable length has to be ca. 3 meters.

1.2 Essential characteristics

Minimum dead load:

type FLX 50	: 0.5 kg
type FLX 100	: 1.0 kg
type FLX 200	: 2.0 kg
Safe overload	: 150 % of E_{max}
Rated output	: 2 mV/V \pm 1 %
Input impedance	: 400 Ω \pm 15 Ω
Output impedance	: 350 Ω \pm 5 Ω
Recommended excitation	: 10 V DC/AC
Min./Max. excitation	: 5 - 12 V DC/AC
Transducer material	: Stainless steel
Atmospheric protection	: Rubber silicone, a welded below and a cable gland

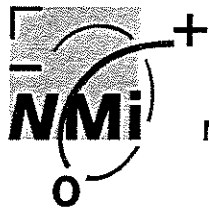
1.3 Essential shapes

Sealing:

- The data plate is sealed against removal or will be destroyed when removed. The data plate contains of at least the following information:
 - manufacturer's mark, or name;
 - E_{max} of the load cell;
 - standard classification in the form C3, C5 or C6;
 - manufacturer's designation;
 - serial number and year of manufacture;
 - the number of this test certificate, TC2856.

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 FLX50 Accuracy Class C6.

Test	Institute	version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	FLX50
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	FLX50
Creep test (20, 40 and -10 °C)	NMi Certin B.V.	FLX50
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V.	FLX50
Barometric pressure test at room temperature	NMi Certin B.V.	FLX50
Humidity test	NMi Certin B.V.	FLX50