Nederlands Meetinstituut

Test certificate

Number **TC6024** revision 2
Project number 201427

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

Notified Body Number 0122

In accordance with
Paragraph 8.1 of the European Standard on Metrological aspects of non-automatic weighing instruments EN 45501:1992/AC:1993 and by application of the OIML International Recommendation R 60 (Edition 2000). The applied error fraction p_i, meant in the paragraph 3.5.4. of the standard is 0.7.

Applicant
Flintec GmbH
Bemannsbruch 9
74909 Meckesheim
Germany

In respect of
The model of a **shear-beam load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Flintec
Type : BK2

Characteristics

Maximum capacity (E_{max})	500, 1000 and 2000 kg
Accuracy Class	C
Maximum number of load cell intervals (n)	3000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	10000

In the description TC6024 revision 2 further characteristics are described.

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NMi B.V.
(Chamber of Commerce no.27.228.701)

Subsidiary companies:
NMi Van Swinden Laboratorium B.V. (27228703)
NMi Certin B.V. (27.233.418)
Verispect B.V. (27.228.700)

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Description and documentation	The load cell is described in the description number TC6024 revision 2 and documented in the documentation folder TC6024-1, appertaining to this test certificate.
Remarks	Summary of the test involved: see Appendix number TC6024 revision 2. This revision replaces the earlier version, except for its documentation folder.

Delft, 14 August 2003
NMi Certin B.V.

P.P.M. van Enckevort
Manager Certification Delft

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
NMi drawing for BK2	4-11012002	0	

Cable:
- The load cell is provided with a 4-wire system.
- Because no "remote-sensing" is used the cable length has to be approximately 3 meters.
- The cable should be a shielded cable, the shield is not connected to the load cell.

1.2 Essential characteristics

Minimum dead load	:	0 kg
Safe overload	:	200 % of E_{max}
Rated Output	:	2 mV/V ± 0.002 mV/V
Input impedance	:	1106 Ω ± 5 Ω
Output impedance	:	1000 Ω ± 1 Ω
Recommended excitation	:	10 V DC/AC
Excitation maximum	:	15 V DC/AC
Transducer material	:	Stainless Steel 17-4 PH (1.45438)
Atmospheric protection	:	Potted

1.3 Essential shapes

The load cell is built according to drawing: NMi drawing for BK2, drawing number 4-11012002 rev.0

The data plate is sealed against removal or will be destroyed when removed. The data plate mentions at least the information and markings as described in the OIML R60 document. In the countries where it is mandatory the load cell should bear this test certificate number: TC6024.

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

Tests carried out for this test certificate:

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V	BK2-500 kg-CM C3
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V	BK2-500 kg-CM C3
Creep test (20, 40 and –10 °C)	NMi Certin B.V	BK2-500 kg-CM C3
Minimum load output return (20, 40 and –10 °C)	NMi Certin B.V	BK2-500 kg-CM C3
Barometric pressure test at room temperature	NMi Certin B.V	BK2-500 kg-CM C3
Humidity test	NMi Certin B.V.	BK2-500 kg-CM C3