



Number **TC6586** revision 1
Project number 408111
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Issued by NMI Certin B.V.
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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_j , meant in the paragraph 3.5.4. of the standard is 0.8.

Applicant Flintec GmbH.
Bemannsbruch 9
74909 Meckesheim
Germany

In respect of A **compression load cell**, with a digital output with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Flintec GmbH
Type : RC3D

Characteristics

Maximum capacity (E_{max})	25000 kg up to and including 50000 kg		
Accuracy class	C		
Maximum number of load cell verification intervals (n_{max})	1000	3000	4000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$	5000	15000	15000

In the description number TC6586 revision 1 further characteristics are described.



Nederlands Meetinstituut

Test certificate

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Description and documentation The load cell is described in the description number TC6586 revision 1 and documented in the documentation folder TC6586-1, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC6586 revision 1
This revision test certificate replaces the earlier version, except for its documentation folder.

Dordrecht, 26 November 2007
NMI Certin B.V.

Ing. C. Oosterman
Manager Product Certification

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
Data sheet Type RC3D Digital Load Cell	E95 06/03	--	2 pages
Load Cell RC3-30t Outline Drawing	21706-5	--	
PCB900 Layout	11.06.2003	00	
PCB900_PL	P:\XRC	01	Parts list

Cable:

The load cell is provided with 6-wire or 8-wire system (4 communications, 2 power supply) and a twisted tinned shield.

1.2 Essential characteristics

Minimum dead load	: 0 kg
Safe overload	: 200 % of E_{max}
Number of counts for E_{max}	: 166666 if $E_{max} = 25$ t 200000 if $E_{max} > 25$ t
Recommended excitation	: 9 ... 12 V DC
Transducer material	: Stainless Steel 17 – 4 PH (1.4548)
Atmospheric protection	: Metallic hermetically sealed

Data transmission:

RS-485A, Half Duplex, addressable, 2400 up to 38400 Baud

Databit, Parity and Data output programmable.

Number of Bus address: 32

Calibration procedure:

Load cell calibration is done in the factory only and is protected from unauthorized use by hardware calibration lock pin (software interrogated) and software audit trail counter and password.

1.3 Essential shapes

The load cell is built according to drawing:

- Load Cell RC3-30t Outline Drawing, drawing number 21706-5.

The data plate is secured against removal by sealing 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: TC6586.

Securing:

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

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Tests performed for this test certificate:

Test	Institute	type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V	RC3D C4 25000 kg
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V	RC3D C4 25000 kg
Creep (20, 40 and -10 °C)	NMi Certin B.V	RC3D C4 25000 kg
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V	RC3D C4 25000 kg
Barometric pressure effects at room temperature	NMi Certin B.V	RC3D C4 25000 kg
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	RC3D C4 25000 kg
Additional tests for load cells equipped with electronics:		
Warm-up time	NMi Certin B.V.	RC3D C4 25000 kg
Bursts (electrical fast transients)	NMi Certin B.V.	RC3D C4 25000 kg
Electrostatic discharge	NMi Certin B.V.	RC3D C4 25000 kg
Electromagnetic susceptibility	NMi Certin B.V.	RC3D C4 25000 kg
Span stability test	NMi Certin B.V.	RC3D C4 25000 kg