

Nederlands Meetinstituut

Test certificate

Number **TC6042** revision 0
Project number 202290
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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 Mettler-Toledo (Changzhou) Scale & System Ltd.
111 Changxi Road
Changzhou, Jiangsu
Peoples Republic of China

In respect of The model of a **single point, bending beam load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Mettler-Toledo
Type : IL

Characteristics

Maximum capacity (E_{max})	150 kg, 250 kg, 500 kg, 1000 kg and 2000 kg
Accuracy Class	C
Maximum number of load cell intervals (n)	3000
Ratio of minimum LC Verification interval $Y = E_{max} / V_{min}$	5000

In the description TC6042 revision 0 further characteristics are described.

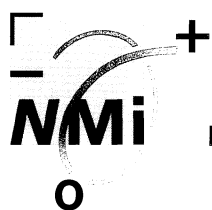
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Description and documentation The load cell is described in the description number TC6042 revision 0 and documented in the documentation folder TC6042-1, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC6042 revision 0

Delft, 1 May, 2002
NMI Certin B.V.

P.P.M.

P.P.M. van Enkevort
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
Load Cell IL-150 kg – 1000 kg	141735A 141736A 141737A 141738A	--	Mechanical One drawing with 4 drawing numbers
Load Cell IL-2000 kg	141739A	--	Mechanical
Wiring, IL – 150 kg – 200 kg	141756A	--	Electrical

Cable:

- The load cell is provided with a 6-wire system.
- Because "remote-sensing" is used the cable length is free, standard cable length is 2.5 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	: 150 % of E_{max}
Rated Output	: 2 mV/V
Input impedance	: $387 \Omega \pm 4 \Omega$
Output impedance	: $350 \Omega \pm 1 \Omega$
Recommended excitation	: 5 / 15 V DC/AC
Excitation maximum	: 20 V DC/AC
Transducer material	: AISI E4340
Atmospheric protection	: Silicone Rubber Cover

1.3 Essential shapes

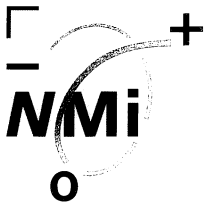
The load cell is built according to the drawings:

- Load Cell IL –150 kg – 1000 kg, drawing number, 141735A 141736A 141737A 141738A;
- Load Cell IL – 2000 kg, drawing number, 141739A.

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: TC6042.

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	IL 150 kg C3 and IL 500kg C3
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V	IL 150 kg C3 and IL 500kg C3
Creep test (20, 40 and -10 °C)	NMi Certin B.V	IL 150 kg C3 and IL 500kg C3
Minimum load output return (20, 40 and -10 °C)	NMi Certin B.V	IL 150 kg C3 and IL 500kg C3
Barometric pressure test at room temperature	NMi Certin B.V	IL 150 kg C3
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	IL 150 kg C3