

Number **TC5382** revision 2
Project number 603081
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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_i , meant in the paragraph 3.5.4. of the standard is 0.7.

Applicant Mettler-Toledo (Changzhou) Precision Instrument Ltd.
No. 5 Middel HuaShan Road
Changzhou, Jiang Su
P.R. of China

In respect of A **single point, bending beam load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Mettler-Toledo (Changzhou) Precision Instrument Ltd.
Type : MT1241-....

Characteristics

Maximum capacity (E_{max})	30 kg up to and including 250 kg
Accuracy class	C
Maximum number of load cell verification intervals (n_{max})	3500
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$	6000

In the description number TC5382 revision 2 further characteristics are described.

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Description and documentation The load cell is described in the description number TC5382 revision 2 and documented in the documentation folder TC5382-2, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC5382 revision 2. This revision test certificate replaces the earlier version, except for its documentation folder.

Dordrecht, 29 March 2006
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
Load cell MT1241 50 kg – 250 kg	123975A – 123979A 125939R – 125943R	0	
Load cell MT1241 30 kg	133398A	0	
Load cell MT-1241	125939R-1	1	

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 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 \pm 0.2 mV/V
Input impedance	: 410 Ω \pm 10 Ω
Output impedance	: 350 Ω \pm 4 Ω
Recommended excitation	: 5 - 15 V DC/AC
Excitation maximum	: 20 V DC/AC
Transducer material	: Aluminium Alloy
Atmospheric protection	: Silicon rubber

1.3 Essential shapes

The load cell is built according to the drawings:

- Loadcell MT 1241 50 kg – 250 kg, drawing number 123975A –123979A and 125939R-125943R;
- Loadcell MT 1241 30 kg, drawing number 133398A.

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: TC5382.

Securing:

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



Tests performed for this test certificate, model MT1241 C3:

Test	Institute	Type, version, remarks
Temperature test and repeatability (20, 40, -10 and 20 °C)	NMi Certin B.V.	30 kg and 50 kg
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	30 kg and 50 kg
Creep (20, 40 and -10 °C)	NMi Certin B.V.	30 kg and 50 kg
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V.	30 kg and 50 kg
Barometric pressure effects at room temperature	NMi Certin B.V.	50 kg
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	50 kg