



Test certificate

Number **TC5258** revision 3
Project number 507725
Page 1 of 4

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 Hottinger Baldwin Messtechnik GmbH
In Tiefen See 45
D-64293 Darmstadt
Germany

In respect of A **single point load cell**, with strain gauges, tested as a part of a weighing instrument.
Manufacturer : Hottinger Baldwin Messtechnik GmbH
Type : PW10

Characteristics

Maximum capacity (E_{max})	50 kg up to and including 300 kg						
Accuracy class	D	C					
Maximum number of load cell verification intervals (n_{max})	1000	1000	1500	2000	2500	3000	4000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$	20000						
Maximum platform size according OIML R76	600 x 500 mm						

In the description number TC5258 revision 3 further characteristics are described.



Nederlands Meetinstituut

Test certificate

Number **TC5258** revision 3
Project number 507725
Page 2 of 4

Description and documentation The load cell is described in the description number TC5258 revision 3 and documented in the documentation folder TC5258-2, appertaining to this test certificate.

Remarks Summary of the test involved: see Appendix number TC5258 revision 3
This revision test certificate replaces the earlier version, except for its documentation folder.

Dordrecht, 13 October 2005
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
PW10AC3... PW10AC4 Plattform-Wägezellen	D.MBF.0-304.00-1101.4 – version b – 12.09.2005	--	Data sheet 2 pages

Cable:

- The load cell is provided with a 6-wire system.
The cable length is not limited.
- The cable should be a shielded cable, the shield is connected to the load cell.

Nomenclature: PW10 x yy / zz K

- x describes - different thread version like metric or inch
 - different cable ends such as versions plugs or even free ends, etc.
- yy Accuracy class
- zz Capacity [kg]

1.2 Essential characteristics

Minimum dead load	: 0 kg
Safe overload	: 150 % of E_{max}
Rated Output	: 2 mV/V ± 10 %
Input impedance	: 420 Ω ± 20 Ω
Output impedance	: 350 Ω ± 5 Ω
Recommended excitation	: 5 V DC/AC
Excitation maximum	: 15 V DC/AC
Transducer material	: Aluminium
Atmospheric protection	: Silicon rubber

1.3 Essential shapes

The load cell is built according to drawing:

- PW10AC3... PW10AC4 Plattform-Wägezellen, drawing number D.MBF.0-304.00-1101.4 – version b – 12.09.2005.

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: TC5258.

Securing:

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

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.	PW10 50 kg C3 and PW10 250 kg C4
Temperature effect on minimum dead load output (20, 40, -10 and 20 °C)	NMi Certin B.V.	PW10 50 kg C3 and PW10 250 kg C4
Creep (20, 40 and -10 °C)	NMi Certin B.V.	PW10 50 kg C3 and PW10 250 kg C4
Minimum dead load output return (20, 40 and -10 °C)	NMi Certin B.V.	PW10 50 kg C3 and PW10 250 kg C4
Barometric pressure effects at room temperature	NMi Certin B.V.	PW10 250 kg C4
Damp heat, cyclic: marked CH (or not marked)	NMi Certin B.V.	PW10 50 kg C3
Eccentricity test according OIML R76	NMi Certin B.V.	PW10 50 kg C3