Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate N°
R60/2000-DE1-08.04

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name:	Physikalisch-Technische Bundesanstalt
Address:	Bundesallee 100, 38116 Braunschweig
Person responsible:	Dr. Panagiotis Zervos

Applicant

Name:	Hottinger Baldwin Messtechnik GmbH
Address:	Im Tiefen See 45, 64293 Darmstadt Germany

Manufacturer of the certified type is the applicant.

Identification of the certified type	Load cell Strain gauge double bending beam load cell Type: Z6F.. Further characteristics see page 2

This Certificate attests the conformity of the above identified type (represented by the sample or samples identified in the associated Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R60, edition 2000
for accuracy classes C3; C4; C6 and C3MI7.5

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

R3-0033

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The conformity was established by the results of tests and examinations provided in the associated Test Reports

No. PTB 1.12-4033817-1 that includes 22 pages
No. PTB 1.12-4033817-2 that includes 22 pages
No. PTB 1.12-4033817-3 that includes 19 pages

The Issuing Authority

Dr. P. Zervos
Direktor und Professor

15.05.2008

The CIML Member

Dr. R. Schwartz
Direktor und Professor

15.05.2008

The load cells (LC) of the series Z6F... are double bending beam load cells. They are made of stainless steel; the strain gauge application is hermetically sealed by means of a welded on metal bellow.

The metrological characteristics for application in approved weighing instruments are listed in table 1

Table 1: Essential data

Accuracy class			C3	C4	C6	C3MI7.5
Maximum number of load cell intervals	n_{LC}		3000	4000	6000	3000
Rated output		mV/V	2			
Maximum capacity	E_{max}	kg	50 / 100 / 200 / 500		50 / 100 / 200	
Minimum load cell verification interval	v_{min}	$\%\cdot E_{max}$	0.0090	0.0066	0.0066	0.0090
Minimum dead load output return	DR = ($½\cdot E_{max}$ / Z)		--	--	--	$½\cdot E_{max}$ / 7500

Dead load: $0\%\cdot E_{max}$; Safe overload: $150\%\cdot E_{max}$; Input impedance: 350 Ω…480 Ω

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