

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R60/2000-DE1-08.05**  
**Revision 1**

## 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 single point load cell  
  
Type: HLCA...; HLCB...; HLCF...  
  
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 D1; C3; C4 and C6

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.

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

No. 1.12-4044210-1                      that includes 22 pages  
 No. 1.12-4044210-2                      that includes 18 pages

## The Issuing Authority

## The OIML Member

Dr. P. Zervos  
 Direktor und Professor

Dr. R. Schwartz  
 Direktor und Professor

02.12.2009

02.12.2009

The load cells (LC) of the series HLCA..., HLCE... and HLCF... are double bending beam load cells. They are made of stainless steel; the strain gauge application is hermetically sealed. The three types of the LC differ in the manner of the force introduction.

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

Table 1: Essential data

Accuracy class			D1	C3	C4	C6
Maximum number of load cell intervals		$n_{LC}$	1000	3000	4000	6000
Rated output		mV/V	1,94			
Range 1	Maximum capacity	$E_{max}$	kg	220 / 1760 / 2200 / 4400		
	Minimum load cell verification interval	$V_{min}$	%· $E_{max}$	0.0285	0.0100	
Range 2	Maximum capacity	$E_{max}$	kg	550 / 1100		
	Minimum load cell verification interval	$V_{min}$	%· $E_{max}$	0.0285	0.0090	

Dead load: 0%· $E_{max}$ ; Safe overload: 150%· $E_{max}$ ; Input impedance: 350 Ω...480 Ω

**Important note:** Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Reports is not permitted, although either may be reproduced in full.