Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate N°
R60/2000-DE1-01.01
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

Manufacturer of the certified type is the applicant.

Identification of the certified type

Digital strain gauge weighbridge compression load cell

Type: C16i...

E_{max} 20 t – 60 t

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 class(es) D1; C3 ÷ C6 $p_{LC} = 0.8$

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 Revision 1 of the Test Certificate contains a change of the electronic parts of the digital load cell as well as an extension about accuracy class C6 according to OIML R60 (2000).

The conformity was established by the results of tests and examinations provided in the associated Test Report No. PTB 1.12-4028860 that includes 34 pages.

The Issuing Authority

Dr. P. Zervos
Regierungsdirektor

21.08.2007

The CIML Member

Dr. R. Schwartz
Direktor und Professor

21.08.2007

Identification of the pattern (continued)

The load cells of type C16i are digital compression load cells for self-centring pendulum applications. Using the fitting elements of the manufacturer the load cell is fixed against rotation. The one column load cell body and the housing are made of stainless steel. The strain-gauge application is hermetically sealed. The analogue signal of the strain gauge bridge is amplified, scaled and filtered by the integrated module. The load cell is equipped with an interface RS485. Further essential characteristics are listed in Table 1.

Table 1: Essential data

Accuracy class			D1	C3		C4		C6	
Max. number of load cell intervals	n_{LC}		1000	3000		4000		6000	
Maximum capacity	E_{max}	t	20/30/40/60	20/30/40	60	20/30/40	60	20/30/40	60
Minimum load cell verification interval	v_{min} = (E_{max} / Y)	1)	E_{max} / 5000	E_{max} / 10000	E_{max} / 12000	E_{max} / 10000	E_{max} / 12000	E_{max} / 10000	E_{max} / 12000
Opt. minimum load cell verification interval	v_{min} = (E_{max} / Y)	1)	E_{max} / 20000						

1) v_{min} is indicated on the name plate
Dead load: 0%·E_{max}; Safe overload: 150%·E_{max};

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