Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate No.
R60/2000-DE1-02.01
Revision 2

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

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

Strain-gauge compression load cell for self centering pendulum application

Type: C16

E_{max}: 6 t ÷ 100 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 classes C1 ÷ C5

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

Physikalisch-Technische Bundesanstalt

OIML Certificate No.
R60/2000-DE1-02.01
Revision 2

With the 2nd revision the additional load of 6 t and 7,5 t were added.
The conformity was established by the results of tests and examinations provided in the associated Test Reports No. 1.12-4062384/1 (11 pages) and 1.12-4062384/2 (18 pages). The test results of the former test report No 1.14-01073217 (5 pages) remain valid.

The Issuing Authority

Dr. O. Mack
Head of Working Group

13.10.2014

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 40

The CIML Member

Dr. R. Schwartz
Vice-president

13.10.2014

Identification of the pattern (continued)

Load cells of the type C16 are compression load cells for self centering 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 metrological characteristics for application in approved weighing instruments are listed in Table 1.

Table 1

Accuracy class		D1	C3	C4	C5
Max. number of LC intervals	n_{LC}	1000	3000	4000	5000
Maximum capacities	E_{max}	6 / 7,5 / 12 / 15 / 20 / 30 / 40 / 60 / 100 t			
Minimum LC verification interval (v_{min}), with parameter class and capacity in reciprocal format: $Y = E_{max} / v_{min}$		for class D at all capacities	for classes C3 to C5 at the capacities 6 / 7,5 / 12 / 15 / 20 / 30 / 40 t	60 t	100 t
	Y	5000	10000	12000	6000
option MR ($v_{min\ MR}$) $Y_{MR} = E_{max} / v_{min\ MR}$	$\mathbf{Y_{MR}}$	-	20000		

Minimum dead load 0% * E_{max} ; safe load 150% * E_{max} ; input resistance 700 Ω; fraction p_{LC} = 0,7 ; the *option* MR is indicated on the nameplate

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 Report(s) is not permitted, although either may be reproduced in full.