

Member State of OIML  
Germany



OIML Certificate No.  
**R60/2000-DE1-06.03**  
**Revision 2**

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### 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

Strain gauge compression load cell

Type: RTN

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, C3 Mi 7.5, C4, C4 MI 7.5, 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.

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

No. 1.14-0010135-1	that includes 20 pages
No. 1.14-0010135-2	that includes 19 pages
No. 1.14-0010135-3	that includes 18 pages
No. 1.14-0010135-4	that includes 23 pages

## The Issuing Authority



Dr. D. Ratschko  
Head of Department

21.11.2011



## The OIML Member



Dr. R. Schwartz  
Head of Division

21.11.2011

## Identification of the pattern (continued)

The HBM compression strain gauge load cell type RTN is made of stainless steel, the strain gauge application is encapsulated hermetically by welding and a glass feed-through.  
The load cell is provided with a shielded 4 or 6 conductor cable. The cable length is indicated in the accompanying document. The shield will be connected or not connected to the load cell according to customers preference.

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

Accuracy class		D1	C3	C4	C5	C3 MI 7.5	C4 MI 7.5
Max. number of load cell intervals	$n_{LC}$	1000	3000	4000	5000	3000	4000
Maximum capacities	$E_{max}$	1 t* / 2.2t / 4.7t / 10t / 15t / 22t / 33t / 47t / 68t / 100t / 150t / 220t / 330t / 470t		1t / 2.2t / 4.7t / 10t / 15t / 22t / 33t / 47t / 68t / 100t			
Minimum LC verification interval	$v_{min}$ (Y)	$E_{max} / 4500$	$E_{max} / 20\,000$		$E_{max} / 24\,000$		
Minimum dead load output return	DR (Z)	---	---		---		$\frac{1}{2} E_{max} / 7500$

Minimum dead load  $0\% \cdot E_{max}$ ; Safe load  $\geq 150\% \cdot E_{max}$ ; Input resistance  $\sim 4.4\,k\Omega$ ,  
Classification symbol "MI" for application in multi-interval weighing instruments with small DR, see OIML R76;  
\*) RTN - C3 - 1 t also with  $v_{min} = E_{max} / 10\,000$ ,  $v_{min}$  is indicated on name plate.

**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.