

Member State of OIML  
Germany



OIML Certificate No.  
R60/2000-DE1-10.08

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### Applicant

Name: Zhonghang Electronic Measuring Instruments Co., Ltd. (ZEMIC)  
Address: 2 PO Box  
723007 Hanzhong, Shaanxi  
China

Manufacturer of the certified type is the applicant.

**Identification of the certified type** Strain gauge shear beam load cell

Type: BM3

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 C3

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

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

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

No. 1.12-4047314-1                      that includes 22 pages  
No. 1.12-4047314-2                      that includes 18 pages

An OIML Basic Certificate has been issued, because the test reports mentioned above are partly based on measurements performed before September 2009 (acceptance of PTB as issuing participant in the DoMC R60).

**The Issuing Authority**



Dr. D. Ratschko  
Head of Department

23.08.2010



**The OIML Member**



Dr. R. Schwartz  
Head of Division

23.08.2010

The load cells of the series BM3 are shear beam load cell. They are made of stainless steel and the strain gauge application is hermetically sealed.

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

Table 1: Essential data

Accuracy class			C3
Maximum number of load cell intervals	$n_{LC}$		3000
Rated output		mV/V	2
Maximum capacity	$E_{max}$	t	0.5 / 1 / 2 / 3 / 4 / 5 / 6 / 7.5
Minimum load cell verification interval	$V_{min} = (E_{max} / Y)$		$E_{max} / 12000$
Minimum dead load output return	$DR = (\frac{1}{2} E_{max} / Z)$		$\frac{1}{2} E_{max} / 3000$

Dead load:  $0\% \cdot E_{max}$ ; Safe overload:  $150\% \cdot E_{max}$ ; Input impedance:  $350 \Omega$ ; Fraction:  $p_{LC} = 0.7$

*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.