

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R60/2000-DE1-09.08**

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### Applicant

Name: Sartorius Mechatronics T&H GmbH  
Address: Meiendorfer Straße 205  
22145 Hamburg  
  
Germany

Manufacturer of the certified type is the applicant.

### Identification of the certified type

Load Cell  
Strain gauge bending beam load cell

Type: MP77

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 ; C3MR ; C3MR+

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. 1.12-4039340-1                      that includes 22 pages  
No. 1.12-4039340-2                      that includes 18 pages

## The Issuing Authority

## The OIML Member

Dr. P. Zervos  
Direktor und Professor

Dr. R. Schwartz  
Direktor und Professor

12.03.2009

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The load cells (LC) of the series MP77 are double bending beam load cells. They are made of stainless steel; the strain gauge application is hermetically sealed by means of a welded on metal bellow.

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

Table 1: Essential data

Accuracy class		C1	C3MR	C3MR+	
Maximum number of load cell intervals	$n_{LC}$	1000	3000		
Rated output		mV/V	2		
Maximum capacity	$E_{max}$	kg	10 / 20 / 50 / 100 / 200 / 250 / 500		
Minimum load cell verification interval	$V_{min} = (E_{max} / Y)$		$E_{max} / 5000$	$E_{max} / 10000$	$E_{max} / 12000$

Dead load:  $0\% \cdot E_{max}$ ; Safe overload:  $200\% \cdot E_{max}$ ; Input impedance:  $380 \Omega$ ; 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.