

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R60/2000-DE1-08.11**

## 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 compression load cell for weighbridges

Type: PR6221/..

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 C3, C4, C5, C6

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. 1.12-4037194-1	that includes 20 pages
No. 1.12-4037194-2	that includes 20 pages
No. 1.12-4037194-3	that includes 20 pages
No. 1.12-4037194-4	that includes 20 pages
No. 1.12-4037194-5	that includes 20 pages

## The Issuing Authority

## The CIML Member

Dr. P. Zervos  
Direktor und Professor

Dr. R. Schwartz  
Direktor und Professor

02.10.2008

02.10.2008

The load cells (LC) of the series PR6221 are compact compression load cells for self-centering pendulum applications. The strain gauge application is hermetically sealed; the deep-drawn and micro plasma welded housing is made of stainless steel and filled with inert gas. 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					
Maximum capacity	$E_{max}$	t	12.5 / 20 / 30	25 / 50	60	75	
Rated output		mV/V	1	2	2.4	3	
Minimum load cell verification interval	$V_{min} = (E_{max} / Y)$		$E_{max} / 14000$				
Minimum dead load output return	$DR = (\frac{1}{2} E_{max} / Z)$		$\frac{1}{2} E_{max} / 6000$				
Accuracy class		C4					
Maximum number of load cell intervals	$n_{LC}$	4000					
Maximum capacity	$E_{max}$	t	12.5	20 / 30	25	50	60 / 75
Rated output		mV/V	1		2		1.5
Minimum load cell verification interval	$V_{min} = (E_{max} / Y)$		$E_{max} / 18000$	$E_{max} / 20000$			
Minimum dead load output return	$DR = (\frac{1}{2} E_{max} / Z)$		$\frac{1}{2} E_{max} / 6000$	$\frac{1}{2} E_{max} / 8000$ <sup>1)</sup>		$\frac{1}{2} E_{max} / 6000$	

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Accuracy class			C5			C6	
Maximum number of load cell intervals	$n_{LC}$		5000			6000	
Maximum capacity	$E_{max}$	t	20 / 30	25	50 / 60 / 75	20 / 30	25
Rated output		mV/V	1	2	1.5	1	2
Minimum load cell verification interval	$V_{min} = (E_{max} / Y)$		$E_{max} / 20000$				
Minimum dead load output return	$DR = (\frac{1}{2} E_{max} / Z)$		$\frac{1}{2} E_{max} / 8000$ <sup>1)</sup>	$\frac{1}{2} E_{max} / 6000$	$\frac{1}{2} E_{max} / 8000$ <sup>1)</sup>		

Maximum capacity	$E_{max}$	t	12.5	20 / 30	25 / 50	60	75
Safe load limit		% $E_{max}$	300	200	150	125	100

<sup>1)</sup> For the compensated temperature range > 40°C Z = 6.000

Dead load: 0%· $E_{max}$ ; Input impedance: 1080 Ω; Fraction:  $p_{LC} = 0.7$

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