Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

Member State of OIML
Germany

OIML Certificate No.
R60/2000-DE1-08.11
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

Name:	Sartorius Mechatronics T&H GmbH
Address:	Meiendorfer Str. 205, 22145 Hamburg

Manufacturer of the certified type is the applicant.

Identification of the certified type

Load cell
Strain gauge compression load cell for weighbridges

Type: PR 6221

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(es) C1 ÷ 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.

R3-0033

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With the 1st revision the accuracy class C6 for the maximum capacities of 50 t, 60 t and 75 t were added.
The conformity was established by the results of tests and examinations provided in the associated Test Reports

No. 1.12-4073824/1 that includes 20 pages
No. 1.12-4073824/2 that includes 20 pages

The Issuing Authority

Dr. O. Mack
Head of Working Group

08.06.2015

The CIML Member

Dr. R. Schwartz

Vice-President

08.06.2015

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
Temperature range		°C	-10 ... +55			
Minimum load cell verification interval	$v_{min} = (E_{max} / Y)$		E_{max} / 14000			
Minimum dead load output return	DR = (½ E_{max} / Z)		½ E_{max} / 6000			

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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
Temperature range		°C	-10 ... +55				
Minimum load cell verification interval	$v_{min} = (E_{max} / Y)$		E_{max} / 18000	E_{max} / 20000			
Minimum dead load output return	DR = (½ E_{max} / Z)		½ E_{max} / 6000	½ E_{max} / 8000 [1)]			

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	50 / 60 / 75
Rated output		mV/V	1	2	1.5	1	2	1.5
Temperature range		°C	-10 ... +55					
Minimum load cell verification interval	$v_{min} = (E_{max} / Y)$		E_{max} / 20000					
Minimum dead load output return	DR = (½ E_{max} / Z)		½ E_{max} / 8000 [1)]					

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

[1)] For the compensated temperature range > 40°C Z = 6000

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

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