Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate N°
R60/2000-DE1-08.10

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 double bending beam load cell

Type: 011xxH

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 ; C6 ; C3MI7.5

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

No. PTB 1.12-4037197-1 that includes 22 pages
No. PTB 1.12-4037197-3 that includes 18 pages

The Issuing Authority **The CIML Member**

Dr. P. Zervos
Direktor und Professor

19.09.2008

Dr. R. Schwartz
Direktor und Professor

19.09.2008

The load cells (LC) of the series 011xxH are double bending beam load cells 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			C3	C4	C6	C3MI7.5
Maximum number of load cell intervals	n_{LC}		3000	4000	6000	3000
Rated output		mV/V	2			
Maximum capacity	E_{max}	kg	50 / 100 / 200 / 500		50 / 100 / 200	
Minimum load cell verification interval	v_{min}	$\%\cdot E_{max}$	0,0090	0,0066		0,0090
Minimum dead load output return	DR = (½ E_{max} / Z)		½ E_{max} / 3000	½ E_{max} / 4000	½ E_{max} / 6000	½ E_{max} / 7500

Dead load: $0\%\cdot E_{max}$; Safe overload: $150\%\cdot E_{max}$; Input impedance: 350 Ω - 480 Ω; Fraction: $p_{LC} = 0.7$

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