

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate N°
R60/2000-DE1-09.05

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 single point load cell

Type: MP70

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) C3 ; 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. 1.12-4039337-1 that includes 24 pages
No. 1.12-4039337-2 that includes 19 pages

The Issuing Authority

The OIML Member

Dr. P. Zervos
Direktor und Professor

Dr. R. Schwartz
Direktor und Professor

11.03.2009

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The load cells (LC) of the series MP70 are single point load cells made of aluminium. The strain gauge application is potted.

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

Table 1: Essential data

Accuracy class		C3	C3MR
Maximum number of load cell intervals	n_{LC}	3000	
Rated output	mV/V	2	
Maximum capacity	E_{max}	5 / 10 / 20 / 30 / 40	
Minimum load cell verification interval	$V_{min} = (E_{max} / Y)$	$E_{max} / 6000$	$E_{max} / 12000$

Dead load: $0\% \cdot E_{max}$; Safe overload: $150\% \cdot E_{max}$; Input impedance: 413 Ω ; Fraction: $p_{LC} = 0.7$

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