

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate N°
R60/2000-DE1-09.09
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

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

Manufacturer of the certified type is the applicant.

Identification of the certified type

Strain gauge bending beam load cell
Type: MP 79, MP 79T
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+, C4, C4MR, 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. 1.12-4046568-1 that includes 22 pages
 No. 1.12-4046568-2 that includes 21 pages
 No. 1.12-4046568-3 that includes 18 pages

This OIML Basic Certificate based on results measured before participation of PTB in the OIML MAA.

The Issuing Authority

The OIML Member

Dr. D. Ratschko
 Oberregierungsrat

Dr. R. Schwartz
 Direktor und Professor

22.06.2010

22.06.2010

The load cells of the series MP79, MP79T are bending beam load cells made of stainless steel. The strain gauge application is hermetical metallic encapsulated.

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

Table 1: Essential data

Accuracy class		C1	C3MR	C3MR+	C4	C4MR	C5	C6
Maximum number of load cell intervals	n_{LC}	1000	3000		4000		5000	6000
Rated output	mV/V	2						
Maximum capacity	E_{max}	227 / 454 / 1134 / 2268 / 4536 / 5099			1134 / 2268 / 4536 / 5099		1134 / 2268 / 4536	
Minimum load cell verification interval for $E_{max} = 227, 454, 1134, 2268, 4536$ kg	$v_{min} = (E_{max} / Y)$	$E_{max} / 5800$	$E_{max} / 11500$	$E_{max} / 23000$				
Minimum load cell verification interval for $E_{max} = 5099$	$v_{min} = (E_{max} / Y)$	$E_{max} / 5100$	$E_{max} / 11000$				---	---

Dead load: $0\% \cdot E_{max}$; Safe overload: $200\% \cdot E_{max}$; Input impedance: 1100Ω ; Fraction: $p_{LC} = 0.7$

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