

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R76/1992-DE1-08.03**

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### Applicant

Name: Sartorius AG  
Address: Weender Landstr. 94-108, 37075 Göttingen, Germany

Manufacturer of the certified type is the applicant.

### Identification of the certified type

Nonautomatic electromechanical weighing instrument with or without lever system

Type: BG SI 200, DG SI 300, DX SI 300

Further characteristics see tables 1 to 3 in pages 2 and 3

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):

**R76-1**, edition 2006

for accuracy classes **II**, **III** and **III**

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 tests described in the report N° 1.12-4036945 and the associated test reports No. 1.12-4036945/1 (Samples 1-4, BG SI 200), No. 1.12-4036945/2 (Samples 1-4, DG SI 300), No. 1.12-4036945/3 (Samples 1-6, BG SI 200), No. 1.12-4036945/4 (Samples 1-5, DG SI 300) and No. 1.12-4036945/45 (Sample 1, DX SI 300).

## The Issuing Authority

Dr. P. Zervos  
Direktor und Professor

17.09.2008

## The CIML Member

Dr. R. Schwartz  
Direktor und Professor

17.09.2008

Table 1

Type	BG SI 200	
Accuracy Class	Ⓜ	
Max	2.5 kg ... 15 kg	5 kg ... 35 kg
e	0.5 g ... 2 g	1 g ... 5 g
d	0.5 g ... 2 g	0.1 g ... 5 g
n ≤	30000	35000
Tare-balancing range ≤	100% of Max	
Temperature range	10 °C / 30 °C	
Nominal capacity of the load receptor	21 kg	41 kg
Initial zero setting + dead load ≤ <sup>1)</sup>	18.5 kg	36 kg

<sup>1)</sup> The sum of Max, initial zero-setting range and the dead load shall not exceed the nominal capacity of the load receptor.

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Table 2

Type	DG SI 300			
Accuracy Class	(III)			
Max	0.1 kg ... 6 kg	0.2 kg ... 15 kg	2.5 kg ... 35 kg	5 kg ... 60 kg
e	1 g ... 10 g	2 g ... 20 g	5 g ... 50 g	10 g ... 100 g
n ≤	6000	7500	7000	6000
Multiple range instrument n <sub>i</sub> (Max <sub>i</sub> /e <sub>i</sub> ) ≤	3000	3000	3500	3000
Tare-balancing range ≤	100% of Max			
Temperature range	-10 °C / +40 °C			
Nominal capacity of the load receptor	7.8 kg	19.5 kg	44 kg	78 kg
Initial zero setting + dead load ≤ <sup>1)</sup>	7.7 kg	19.3 kg	41.5 kg	73 kg

<sup>1)</sup> The sum of Max, initial zero-setting range and the dead load shall not exceed the nominal capacity of the load receptor.

Table 3

Type	DX SI 300		
Accuracy Class		(III)	(IIII)
Max		0.5 kg ... 300 t	0.5 kg ... 300 t
Number of verification scale intervals			
Single range instrument Max/e	n ≤	6125	1000
Multiple range instrument Max <sub>i</sub> /e <sub>i</sub>	n <sub>i</sub> ≤	3125	1000
Multi-interval instrument Max <sub>i</sub> /e <sub>i</sub>	n <sub>i</sub> ≤	3125	1000
Multi-interval instrument Max <sub>i</sub> /e <sub>1</sub>	n <sub>1</sub> ≤	6250	6250
Tare-balancing range		100 % of Max	
Preset tare range		100 % of Max <sup>1)</sup> 100 % of Max <sub>1</sub> <sup>2)</sup>	
Temperature range		-10 °C / +40 °C	

<sup>1)</sup> This applies to each range of single- and multiple range instruments

<sup>2)</sup> This applies only to multi-interval instruments

**Important note:** Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Report(s) is not permitted, although either may be reproduced in full.