

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R76/1992-DE-01.08**  
**Revision 3**

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### Applicant

Name: Sartorius AG  
Address: Weender Landstr. 94-10, 37075 Göttingen  
GERMANY

Manufacturer of the certified type is the applicant.

### Identification of the certified type

Nonautomatic electromechanical weighing instrument  
Type: BC BL 100, BD BL 100, BD BL 200, BF BL 500

Further characteristics see page 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 1992, including Amendment 1 (1994),  
for accuracy class (I) (II) (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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This Revision 3 was issued because new variants of type BC BL 100 and BD BL 100 with new weighing ranges were added. The conformity was established by tests described in the report N° 1.14-01059339, 3 Revision and the associated test reports N° 1.14-01059339/1 Sample 3 (BC BL 100) and N°1.14-01059339/5 Sample 2 (BD BL 100). The test results of the former test reports N° 1.14-01059339/1, N° 1.14-01059339/2, N° 1.14-01059339/3, N° 1.14-01059339/4, N° 1.14-01059339/5, N° 1.14-01059339/6 and N° 1.14-01059339/7 remain valid.

## The Issuing Authority

Dr. R. Schwartz  
Direktor und Professor

27.09.2005

## The CIML Member

Prof. Dr. M. Kochsiek  
Vizepräsident

27.09.2005

## Identification of the pattern (continued)

Weighing instrument with built-in, front-mounted or separate display, keyboard and interface. The weighing instrument may be designed with two indicating devices. The type BC BL 100 may have parts of the electronics arranged in a separate housing.

The weighing ranges with Max, Min, e, d and number of verification scale intervals may be chosen within the limits of No. 3.2 of R76-1 and of tables 1 and 2.

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Table 1

Type	BC BL 100		BD BL 100		BD BL 200		
Accuracy Class	I		I		II		
Max	≤ 21 g	50 g ...320 g	50 g ...320 g	500 g ...1200 g	1 g ...620 g	500 g ...6200 g	5000 g ...10000 g
e	1 mg	1 mg ...5 mg	1 mg ...5 mg	10 mg ...20 mg	10 mg ...100 mg	0,1 g ...1 g	1 g
d	0,002 mg ...0,05 mg	0,01 mg ...5 mg	0,1 mg ...5 mg	1 mg ...20 mg	1 mg ...100 mg	0,01 g ...1 g	0,1 g ...1 g
n ≤	21000	320000	320000	120000	62000	62000	10000
Tare-balancing range ≤	100% of Max						
Temperature range	15 °C / 25 °C		15 °C / 25 °C		10 °C / 30 °C		
Temperature range <sup>1)</sup>	0 °C / +40 °C (only Max ≤ 220g)		+10 °C / +40 °C	0 °C / +40 °C	0 °C / +40 °C	0 °C / +40 °C	0 °C / +40 °C
Nominal capacity of the load receptor	22 g	384 g	384 g	1250 g	744 g	7440 g	12000 g
Initial zero setting + dead load ≤ <sup>2)</sup>	22 g	334 g	334 g	750 g	743 g	6940 g	7000 g

<sup>1)</sup> Only for weighing instruments with incorporated span adjustment device with automatic release.

<sup>2)</sup> The sum of Max, initial zero-setting range and the dead load shall not exceed the nominal capacity of the load receptor.

Table 2

Type	BF BL 500	
Accuracy Class	II	III
Max	5000 g ... 34000 g	100 g... 34000 g
e	1 g...5 g	1 g...50 g
d	0,1 g...5 g	d=e
n ≤ <sup>1)</sup>	34000	10000
n <sub>i</sub> ≤ <sup>2)</sup>	not applicable	10000
Max / e <sub>1</sub> ≤ <sup>2)</sup>	not applicable	34000
Tare-balancing range ≤	100% of Max	
Temperature range	0 °C / 35 °C	0 °C / 35 °C
Temperature range <sup>3)</sup>	0 °C / +40 °C	0 °C / +40 °C
Nominal capacity of the load receptor	40800 g	40800 g
Initial zero setting + dead load ≤ <sup>4)</sup>	35800 g	40700 g

<sup>1)</sup> This applies to single range instruments

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

<sup>3)</sup> Only for weighing instruments with incorporated span adjustment device with automatic release

<sup>4)</sup> The sum of Max, initial zero-setting range and the dead load shall not exceed the nominal capacity of the load receptor.

**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.