

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R76/1992-DE1-06.01**  
**Revision 1**

## 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

Manufacturer of the certified type is the applicant.

### Identification of the certified type

Nonautomatic electromechanical weighing instrument  
Type: BD ED 100, BD ED 200

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 classes **I**, **II**

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 1 was issued because of new variants of the housing of type BD ED 100 and BD ED 200 and the expansion of the temperature range of type BD ED 100.

The conformity was established by tests described in the Report N° 1.12-4022009 (8 pages) and the associated Test Reports N° 1.12-4022009/1 (34 pages), N° 1.12-4022009/2 (137 pages), N° 1.12-4022009/3 (9 pages), N° 1.12-4022009/4 (13 pages) and N° 1.12-4022009/5 (13 pages). The Test Reports N° 1.12-4022009/6 (11 pages) and N° 1.12-4022009/7 (11 pages) include merely additional information.

## The Issuing Authority

Dr. P. Zervos  
Regierungsdirektor

10.07.2006

## The CIML Member

Prof. Dr. M. Kochsiek

10.07.2006

Identification of the pattern (continued)

Weighing instrument with built-in display, keyboard and interface.

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 or 2.

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Table 1

|  |   |  |  |
|--|---|--|--|
| Type   | BD ED 100   |  |  |
| Accuracy Class                                   | Ⓡ   |  |  |
| Max  | 50 g ... 240 g  |  |  |
| e  | 1 mg ... 2 mg   |  |  |
| d  | 0,1 mg ... 2 mg   |  |  |
| n ≤  | 240000  |  |  |
| Tare-balancing range ≤                           | 100% of Max   |  |  |
| Temperature range                                | A range of 5°C up to 10°C<br>within the limits of +15 °C up to +27 °C |  |  |
| Nominal capacity of the load receptor            | 288 g   |  |  |
| Initial zero setting + dead load ≤ <sup>1)</sup> | 238 g   |  |  |

Table 2

|  |                   |                  |                   |
|--|-------------------|------------------|-------------------|
| Type   | BD ED 200         |                  |                   |
| Accuracy Class                                   | Ⓡ                 |                  |                   |
| Max  | 1 g ... 620 g     | 500 g ... 6200 g | 5000 g ... 8200 g |
| e  | 0,01 g ... 0,1 g  | 0,1 g ... 1 g    | 1 g               |
| d  | 0,001 g ... 0,1 g | 0,01 g ... 1 g   | 0,1 ... 1 g       |
| n ≤  | 62000             | 62000            | 8200              |
| Tare-balancing range ≤                           | 100% of Max       |                  |                   |
| Temperature range                                | +10 °C / +30 °C   |                  |                   |
| Nominal capacity of the load receptor            | 744 g             | 7440 g           | 9840 g            |
| Initial zero setting + dead load ≤ <sup>1)</sup> | 743 g             | 6940 g           | 4840 g            |

- <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.

*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.