# Physikalisch-Technische Bundesanstalt

**Braunschweig und Berlin**

Member State of OIML
Germany

OIML Certificate N°
**R60/2000-DE1-09.03**

# OIML CERTIFICATE OF CONFORMITY

**Issuing Authority**

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

**Applicant**

| | |
|---|---|
| Name: | Flintec GmbH |
| Address: | Bemannsbruch 9 |
| | 74909 Meckesheim |
| | Germany |

Manufacturer of the certified type is the applicant.

| | |
|---|---|
| **Identification of the certified type** | Load Cell<br>Strain gauge double bending beam load cell |
| | Type: SB8 |
| | 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 ; C3 ; C3 MI 6

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.

R3-0033

# Physikalisch-Technische Bundesanstalt

OIML Certificate N°
**R60/2000-DE1-09.03**

The conformity was established by the results of tests and examinations provided in the associated Test Reports

No. 1.12-4039153-1 that includes 22 pages
No. 1.12-4039153-2 that includes 18 pages

**The Issuing Authority**

Dr. P. Zervos
Direktor und Professor

30.04.2009

**The CIML Member**

Dr. R. Schwartz
Direktor und Professor

30.04.2009

The load cells (LC) of the series SB8 are double bending beam load cells made of stainless steel. The strain gauge application is encapsulated hermetically.

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

Table 1: Essential data

| | | | | | |
|---|---|---|---|---|---|
| Accuracy class | | | C1 | C3 | C3 MI 6 |
| Maximum number of load cell intervals | $n_{LC}$ | | 1000 | 3000 | 3000 |
| Rated output | | mV/V | 2 | | |
| Maximum capacity | $E_{max}$ | kg | 10 / 20 / 50 / 100 / 200 / 250 / 500 | | 100 / 200 / 250 / 500 |
| Minimum load cell verification interval | $v_{min}$ = ($E_{max}$ / Y) | | $E_{max}$ / 5000 | $E_{max}$ / 10000 | |
| Minimum dead load output return | DR = (½ $E_{max}$ / Z) | | -- | -- | ½ $E_{max}$ / 6000 |

Dead load: 0%·$E_{max}$; Safe overload: 200%·$E_{max}$; Input impedance: 380 Ω; Fraction: $p_{LC}$ = 0.7

*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.