

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate N°  
**R60/2000-DE1-09.11**

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### Applicant

Name: Laumas Elettronica s.r.l.  
Address: Via 1 Maggio, 6  
43030 Basilicanova (PR)  
Italien

Manufacturer of the certified type is the applicant.

### Identification of the certified type

Strain gauge shear load cell

Type: FTP

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 class C3

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 Report

No. 1.12-4038123-1 that includes 22 pages

## The Issuing Authority

Dr. P. Zervos  
Direktor und Professor

29.06.2009

## The OIML Member

Dr. R. Schwartz  
Direktor und Professor

29.06.2009

The load cells of the series FTP are shear beam load cells. They are made of stainless steel and the strain gauge application is hermetically sealed.

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

Table 1: Essential data

|   |                                  |      |                              |
|---|----------------------------------|------|------------------------------|
| Accuracy class                          |                                  |      | C3                           |
| Maximum number of load cell intervals   | $n_{LC}$                         |      | 3000                         |
| Rated output                            |                                  | mV/V | 2                            |
| Maximum capacity                        | $E_{max}$                        | kg   | 500 – 2500 <sup>1)</sup>     |
| Minimum load cell verification interval | $V_{min} = (E_{max} / Y)$        |      | $E_{max} / 15000$            |
| Minimum dead load output return         | $DR = (\frac{1}{2} E_{max} / Z)$ |      | $\frac{1}{2} E_{max} / 3000$ |

Dead load: 0%· $E_{max}$ ; Safe overload: 150%· $E_{max}$ ; Input impedance: 385  $\Omega$ ; Fraction:  $p_{LC} = 0.7$

<sup>1)</sup> In steps of 50 kg

**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 is not permitted, although either may be reproduced in full.