

Member State of OIML
Germany



OIML Certificate N°
R60/2000-DE-03.03

OIML CERTIFICATE OF CONFORMITY

Issuing authority

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

Applicant:

Name: **Revere Transducers Europe BV**
Address: Ramshoorn 7
4824 AG Breda
Netherlands

Manufacturer of the certified pattern is the Applicant.

Identification of the certified pattern: Digital strain gauge compression load cell for self centering pendulum application

Type: **DSC**

E_{max} : 30 t + 100 t

Further characteristics see page 2

This certificate attests the conformity of the above-mentioned pattern (represented by the 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 C1 + C4, MR, MI 7,5

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

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The conformity was established by tests described in the associated test report
N° 1.14-02000674 (33 pages in total).

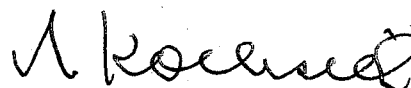
The issuing authority



Dr. R. Schwartz
Direktor und Professor



The OIML member



Prof. Dr. M. Kochsiek
Vizepräsident

21.03.2003

21.03.2003

Identification of the pattern (continued)

Load cells of the type DSC are compression load cells for self centering pendulum applications. Using the fitting elements of the manufacturer, the load cell is fixed against rotation. The one column load cell body and the housing are made of stainless steel. The strain-gauge application is hermetically sealed.

The analog signal of the strain gauge bridge is amplified, scaled and filtered by the integrated modul. The load cell is equipped with an interface RS485 or RS422.

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

Table 1

| Accuracy class | | | C1 | C2 | C3 | C4 |
|--|--------------------------------------|----|-------------------------|------------------------------|------------------------------|------------------------------|
| Max. number of LC intervals | n_{LC} | | 1000 | 2000 | 3000 | 4000 |
| Maximum capacities | E_{max} | t | 30 / 40 / 50 / 60 / 100 | | | |
| Minimum load cell verification interval | V_{min} (E_{max}/Y) | | $E_{max} / 2000$ | $E_{max} / 4000$ | $E_{max} / 6000$ | $E_{max} / 8000$ |
| Minimum load cell verification interval, type MR | $V_{min MR}$ (E_{max}/Y_{MR}) | 1) | - | $E_{max} / 6000$ | $E_{max} / 10000$ | $E_{max} / 20000$ |
| Minimum dead load output return, type MI 7,5 | DR ($\frac{1}{2} E_{max} / Z$) | 1) | - | $\frac{1}{2} E_{max} / 7500$ | $\frac{1}{2} E_{max} / 7500$ | $\frac{1}{2} E_{max} / 7500$ |

Minimum dead load $0\% * E_{max}$; safe load $\geq 150\% * E_{max}$; fraction $p_{LC} = 0,8$;

1) Options MR respectively MI 7,5 are indicated on the nameplate.

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