Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate No.
R60/2000-DE1-11.03

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

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

Applicant

Name:	Shering Weighing Ltd. Pitreavle Business Park
Address:	Dunfermline 5, KY11 8UL Scotland
	United Kingdom

Manufacturer of the certified type is the applicant.

Identification of the certified type

Strain gauge compression load cell

Type: SCL50SA

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 C3, C3MR15, C4, C4MR16, C5, C6, C6MR16

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

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

No. 1.12 4051667-1 that includes 22 pages

An OIML Basic Certificate has been issued, because the Test Report mentioned above is based on measurements performed before September 2009 (acceptance of PTB as issuing participant in the DoMC R60).

The Issuing Authority **The CIML Member**

Dr. D. Ratschko
Head of Department

14.04.2011

Dr. R. Schwartz
Head of Division

14.04.2011

The load cells of the series SCL50SA are compression load cells made of stainless steel. 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	C3 MR15	C4	C4 MR16	C5	C6	C6 MR16
Maximum number of load cell intervals	n_{LC}		3000		4000		5000	6000	
Rated output		mV/V	2						
Maximum capacity	E_{max}	t	30 / 40 / 50						
Minimum load cell verification interval	$v_{min} = (E_{max} / Y)$		E_{max} / 6000	E_{max} / 15000	E_{max} / 8000	E_{max} / 16000	E_{max} / 10000	E_{max} / 12000	E_{max} / 16000

Dead load: 0%·E_{max}; Safe overload: 150%·E_{max}; Input impedance: 700 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 is not permitted, although either may be reproduced in full.