



Member State of OIML  
United Kingdom of Great Britain  
and Northern Ireland

OIML Certificate No  
R60/2000-GB1-10.03

## OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory  
(Part of the National Measurement Office)**  
Address: **Stanton Avenue  
Teddington  
Middlesex  
TW11 0JZ  
United Kingdom**

Person responsible: **Paul Dixon- Product Certification Manager**

Applicant

Name: **B & T Weighing System (Kunshan) Co, Ltd  
Zhu Jia Wan Road  
Zhou Shi Town  
Kunshan  
Jiangsu  
China**

Manufacturer of the certified pattern is:

**The applicant &  
T Scale Electronics Co., Ltd  
No. 99, Shun-Chang Road  
Kunshan  
Jiangsu  
China**

Identification of the certified pattern:

**Stainless steel, compression strain gauge load cell.**

Model Designation	TSCPR				
Maximum capacity, $E_{\max}$ (t)	20, 35, 50				
Accuracy class	C				
Maximum number of load cell intervals, $n_{\max}$	1000	2000	3000	3000M	4000
Minimum verification interval, $V_{\min}$ (t)	$E_{\max}/14000$				
Apportionment factor; $p_{LC}$	0.7				

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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 Organisation of Legal Metrology - OIML):

**R 60** *Metrological regulation for load cells* **Edition: 2000 (E)** for **accuracy class : C**

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.

The conformity was established by tests described in the associated test reports: 971124 which includes 24 pages, 971103 which includes 24 pages.

Issuing authority

CIML member




Mr P R Dixon  
for NWML

P Mason

Date 27 July 2010  
Ref: TS13/0001

**Table 1: Essential technical data**

Model designation	Designation	Value					Units
		C1	C2	C3	C3M	C4	
Classification		C1	C2	C3	C3M	C4	
Additional marking		-					
Maximum number of load cell verification intervals	$n_{LC}$	1000	2000	3000	3000	4000	
Maximum capacity	$E_{max}$	20, 35, 50					t
Minimum dead load, relative	$E_{min}/E_{max}$	0.5					%
Relative $V_{min}$ (ratio to minimum LC verification interval)	$Y = E_{max}/V_{min}$	14000					
Relative DR (ratio to minimum dead load output return)	$Z = E_{max}/(2*DR)$	-		8000		-	
Rated output		2					mV/V
Maximum excitation voltage		18					V DC
Input impedance (for strain gauge LCs)	$R_{LC}$	$700 \pm 5\Omega$					$\Omega$
Temperature rating		-10/+40					$^{\circ}C$
Safe overload, relative	$E_{lim}/E_{max}$	150					%
Maximum cable length		18					m
Additional characteristic		6 wire (0.5 mm <sup>2</sup> ) + double shield Class C3M is suitable for multi interval instruments					

**Certificate History**

<b>ISSUE NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
R60/2000-GB1-10.03	27 July 2010	Type approval first issued.
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