

Member State of OIML United Kingdom of Great Britain and Northern Ireland OIML Certificate No R51/2006-GB1-09.02

## **OIML CERTIFICATE OF CONFORMITY**

Issuing authority	
Name:	National Weights and Measures Laboratory
Address:	Stanton Avenue
	Teddington
	Middlesex
	TW11 0JZ
	United Kingdom
Person responsible:	Gavin Stones
	<b>Deputy Product Certification Manager</b>
Applicant	
Name:	Sparc Systems Ltd
Address:	Merebrook Industrial Estate
	Hanley Road
	Malvern
	Worcestershire
	WR13 6NP
Manufacturer of the certi	fied pattern is the Applicant.

Identification of the certified pattern:

### TS 310 checkweigher 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):

OIML:	R51
Edition:	2006 (E)
Accuracy class:	XIII(1)

# OIML Certificate No R51/2006-GB1-09.02

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 report:TR 545 having 39 pagesPattern evaluation checklist:P00086 (T1108/0051/0075) having 11 pages

The issuing authority

Mr G Stones

Date: 08 April 2009 Ref: T1108/0051 The CIML member

Pat Mm

Mr P Mason

Characteristics: Mains-powered automatic checkweighing instrument designated the TS310.

Designation	TS310 – 3 kg	TS310 – 6 kg	TS310 – 15 kg	
Maximum capacity:	3000 g	6000 g	15000 g	
Minimum capacity (Min):	50 g	100 g	250 g	
Scale interval:	1 g	2 g	5 g	
Maximum number of scale intervals:	3000			
Load cell excitation voltage	4.7 Vdc			
Tare:	- 500 g	- 1000 g	- 2500 g	
Accuracy class	XIII(1)			
Maximum rate operation	50-150 g:	100-300 g:	250-750 g:	
	104 packs/min	104 packs/min	104 packs/min	
	151 – 3000 g:	302 – 6000 g:	755 – 15000 g:	
	132 packs/min	132 packs/min	132 packs/min	
Maximum belt speed:	50-150 g:	100-300 g:	250-750 g:	
	26 m/min	26 m/min	26 m/min	
	151 – 3000 g:	302 – 6000 g:	755 – 15000 g:	
	33 m/min	33 m/min	33 m/min	
Climatia anvinannant	0°C to +40 °C			
	Non-condensing (closed)			
Electromagnetic environments	E1 and E2			
Power supply	230 Va.c 50 Hz			
Pneumatic pressure	6 bar			

Load cell:

The load cell may be one of the following:

Designation	TS310 – 3 kg	TS310 – 6 kg		TS310 – 15 kg
Load cell	HBM PW22C3	HBM PW22C3	HBM PW16AC3	HBM PW16AC3
Emax	20 kg	30 kg	30 kg	50 kg

Any compatible load cell(s) may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to R76 has been conducted on this load cell.
- It is not a load cell with digital output
- The characteristics of the replacement load cell such as nlc, Y, Z are the same or better that the load cell tested dynamically (HBM PW22 C3, capacity 20 kg)
- The design of the load cells and the material are the same
- No oil damper is used

### Devices:

- Automatic zero setting device active during automatic operation (at least every 7 min if no zero-tracking can take place) ( $\leq 4\%$  max)
- Semi-automatic zero-setting ( $\leq 4\%$  max)
- Initial zero-setting ( $\leq 4\%$  max)
- Zero tracking ( $\leq 4\%$  max)
- Pre-set tare device (subtractive)
- Static calibration, not accessible to the user
- Belt speed setting, accessible to the user (access password protected)
- Internal memory for storage of batch data
- Screen check at power-up
- High resolution mode (0.1e) for testing purposes, not accessible to the user

#### Interfaces:

– Ethernet

Important note: Apart from the mention of the certificate's reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.