

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**  
Person responsible: **Paul Dixon – Product Certification Manager**  
Applicant: **Thermo Ramsey Italia S.R.L.  
Strada Rivoltana km 6/7 Rodano (MI)  
20090  
Italy**  
Manufacturer: **The applicant**  
Identification of the  
certified pattern: **VersaWeigh, VersaGP, Versa RxC and Versa RxM  
Checkweighers**

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):

### **OIML R 51 - Edition 2006(E) for accuracy class XIII(1)**

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.

Important note: Apart from the mention of the certificates 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.

**Issue Date: 25 January 2012**  
**Reference No: T1108/0053**

  
**Signatory: P R Dixon**

The conformity was established by tests and examination described in the associated pattern evaluation report P00380 which includes 12 pages.

**Characteristics of the instrument:**

Mains-powered automatic checkweighing instrument designated the VersaWeigh, VersaGP, Versa RxC and Versa RxM Checkweighers, which operate as automatic checkweighers (Category X).

Technical data:

Maximum capacity (Max):	1 200 g	2 400 g	48 00 g	12 000 g	24 000 g	48 000 g
Minimum capacity (Min):	35 g	70 g	140 g	350 g	700 g	1400 g
Scale interval (e =):	≥ 0.5 g	≥ 1 g	≥ 2 g	≥ 5 g	≥ 10 g	≥ 20 g
Maximum number of scale intervals (n):	2400					
Load cell Emax:	10 kg	20 kg	30 kg	100 kg	100 or 200 kg	100 or 300 kg
Tare (T):	- 500 e (single-range instruments) - 500 e <sub>1</sub> (multi-range instruments)					
Belt speed:	1.2 m/s					
Climatic environment	0°C to +40 °C					
	Non-condensing (closed)					
Power supply	115 - 250 Va.c. 50 Hz					
Accuracy class	XIII(1)					

Other E<sub>max</sub> values may be chosen provided the sensitivity is greater than 1 µV/e.

Load cell:

The load cell type may be as follows: Teda Huntleigh 1042 or 1250 C3, capacity according to above table.

Any compatible load cell 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 than the load cell tested dynamically (Teda 1042 C3, capacity 10 kg)
- The design of the load cells and the material are the same
- No oil damper is used

Interfaces:

- RS 232
- USB
- Ethernet
- Parallel

Devices:

- Initial zero-setting
- Zero-tracking
- Automatic alarm device active during automatic operation (requests a zero setting at least every 11 min)
- Pre-set tare device (subtractive)
- Multi-range operation
- Static calibration not accessible to the user
- Dynamic calibration accessible to the user and recorded
- Internal memory for storage of batch reports
- Device that acts upon significant faults
- Screen check at power-up

Alternatives:

- Having the instrument designated the VersaGP of a different construction: the instrument has an integrated frame and supports of adjustable height on the side of the cabinet, on which the conveyors and weigh platform are mounted.
- Having the instrument using the Slack Conveyor, non-powered weighing system, having a belt or chain or similar carrier sliding across the weighing plate using an aligned in-feed and out-feed dead plate. This weighing system may be used with the Versa Weigh and Versa GP constructions.

The load cell type may be as follows: Vishay Celtron LPS, capacity according to table below.

Any compatible load cell 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 than the load cell tested dynamically (Vishay Celtron LPS, capacity 2 kg)
- The design of the load cells and the material are the same
- No oil damper is used

The instruments have the following technical characteristics.

Maximum capacity (Max) (g):	300	300	300	600	1500
Minimum capacity (Min):	4.5 g	10 g	10 g	20 g	50 g
Scale interval (e =):	≥ 0.1 g	≥ 0.2 g	≥ 0.5 g	≥ 0.2 g	≥ 0.5 g
Load cell E <sub>max</sub> :	2 kg	2 kg, 3 kg	2 to 10 kg	3 kg	10 kg

Maximum capacity (Max):	3000 g	6000 g	15000 g
Minimum capacity (Min):	100 g	200 g	500 g
Scale interval (e =):	≥ 1 g	≥ 2 g	≥ 5 g
Load cell E <sub>max</sub> :	20 kg	35 kg	100 kg

Other  $E_{max}$  values may be chosen provided the sensitivity is greater than 1  $\mu\text{V}/e$ .

Maximum number of scale intervals (n):	3000
Tare (T):	$T \leq 30\%$ Gross for Gross $\leq 500e$ $T \leq 50\%$ Gross for $500e < \text{Gross} \leq 3000e$ for speed $\leq 1.8$ m/s $T \leq 15\%$ Gross for $500e < \text{Gross} \leq 2000e$ for speed $\geq 1.8$ m/s $T \leq 50\%$ Gross for $2000e < \text{Gross} \leq 3000e$ (with $e_1$ replacing $e$ for multi-range instruments)
Climatic environment	$0^\circ\text{C}$ to $+40^\circ\text{C}$
	Non-condensing (closed)
Electromagnetic environments	E1 and E2
Power supply	115 - 230 Va.c. 50/60 Hz
Accuracy class	XIII(1)

Number of scale interval	Maximum conveyor speed
Min - 100	1.6 m/s
100 – 2000	2.0 m/s
2000 - 3000	1.6 m/s

- Having a modified construction. The instrument is constructed in stainless steel and part of an integrated self-carrying cabinet on adjustable feet, with a see through door.

The model Versa RxC uses this construction with the standard weighing system.

The models Versa RxM and Versa Chain use this construction with the Slack Conveyor weighing system.

- The standard software also allows options for:
  - Multi-Lane applications
  - Intermittent Checkweigher (Static-Weigh) applications (static weighing, restricted to Slack Conveyor weighing systems, and to maximum capacities  $\leq 1500$  g in section 7.2.2)
  - Data Matrix applications
  - OEM applications
  - Teorema applications

Dedicated software versions allows:

- Tare/Gross applications
  - Multiproduct applications
  - Twin application
- Having the instrument running an e-mark control and registration software.