



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

**OIML Certificate No
R76/1992-GB1-08.07
Revision 1**

OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory**
Address: **Stanton Avenue
Teddington
Middlesex
TW11 0JZ
United Kingdom**

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

Applicant

Name: **Fabricantes de Basculas Torrey, S.A. de C.V.**
Address: **Ave. Los Andes 605
Col. Coyoacan C.P. 64510
Monterrey NL
Mexico**

Manufacturer of the certified pattern is the Applicant.

Identification of the certified pattern:

**Non-automatic weighing instrument comprising the Torrey PI
WI & WI-W Electronic weight indicators connected to a
platform incorporating compatible R60 load cell(s).
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:	R76
Edition:	1992 (E)
Accuracy class:	III or IIII

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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:	SN 1068 (WI) having 33 pages
Test reports:	SN 1069 (PI) having 15 pages
Pattern evaluation checklist:	F20362 having 12 pages

This Revision replaces earlier versions of the certificate.

The issuing authority



Mr P R Dixon
for NWML

The CIML member



Mr P Mason

Date: 25 February 2009

Ref: T1127/0033

Characteristics:

This instrument utilises either the digital indicating device designated the Torrey PI indicator or its compact version designated the Torrey WI indicator connected to a load receptor to form a Class III self-indicating non-automatic weighing instrument. The WI-W version uses the same components as the WI; this alternative model has been fitted with gaskets to make the indicator waterproof.

Construction:

The indicators comprise the following:

- LCD display
- Operator's keypad
- Plastic construction
- Load cell connection (four wire)

Devices:

The pattern has the following devices:

- Subtractive tare device
- Gross and Net Indicator
- Semi automatic tare device
- Pre set tare device (PI only)
- Battery indicator
- Unit indicator
- AC/DC power supply indicator
- Motion indicator PI only
- Semi-automatic zero-setting
- Zero-tracking
- Initial zero-setting

Operation:

There are ten dedicated function keys. These perform the following functions:

- ON/OFF: power on/off.
- ZERO: zeros the indicator if the weight is stable.
- TARE: tares the indicator if the weight is stable.
- PRINT: initiates a print transmission if the weight is stable.
- SEMI AUTO TARE: tares the indicator if the weight is stable.
- UNIT: selects the unit of weight, but disabled on approved indicator.
- CLEAR: clears entered value.
- NUMERICAL KEYS: allows user to enter numeric input. PI only
- BACKLIGHT: turns on/off backlight display
- ENTER: used to enter value. PI only

Load cell:

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.
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation.

Interfaces:

The pattern may have the following protected interfaces:

- RJ-11 4-wire load cell connection
- RS232 connection

Technical data:

Power supply	9 V DC *
Maximum number of scale intervals	5000
Load cell excitation voltage	5 V DC
Minimum load cell impedance	350 Ω
Maximum load cell impedance	750 Ω
Minimum input voltage per verification scale interval	1.25 μ V
Measuring range minimum voltage	10 mV
Measuring range maximum voltage	15 mV
Fraction of maximum permissible error	$P_{ind} = 0.5$
Operating temperature range	- 10 $^{\circ}$ C to + 40 $^{\circ}$ C
Load cell cable - Maximum length	PI = 9 m WI = 8 m

* The pattern may be powered from any suitable DC supply; any compatible mains adaptor or battery operated.

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R76/1992-GB1-08.07	30 October 2008	Type approval first issued.
R76/1992-GB1-08.07 Revision 1	25 February 2009	Alternative model design added WI-W.

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