

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

OIML Certificate No
R76/2006-GB1-12.10

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

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

Applicant: **UNIVERSAL WEIGHT ENTERPRISE CO., LTD.
2~5 FLOOR, NO.39, BAOXING ROAD
XINDIAN DISTRICT
NEW TAIPEI CITY 231
TAIWAN (R.O.C.)**

Manufacturer: **The applicant**

Identification of the
certified pattern: **A-Series and V-Series**

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 76 - Edition 2006(E) for accuracy class: [III] and [IIII]

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: **02 October 2012**
Reference No: **TS1201/0045**


Signatory: **P R Dixon**

The conformity was established by tests described in the associated pattern evaluation report P00917 which includes 13 pages.

Characteristics of the instrument:

Characteristics:

This family of instruments utilises the digital indicating devices designated the A-Series and V-Series indicators, comprising the AFS, AFM, ABM, ATM, APS, VFS, VFM, VBM, VTM and VPS models, connected to a weighing platform to form a Class III or IIII, mains or battery-powered, self-indicating, single interval or dual interval/range, non-automatic weighing instrument.

The instruments may be used for direct sales to the public.

Main features:

- Stainless steel enclosure (AFS, APS, VFS and VPS models)
- Plastic enclosure (AFM, ATM, ABM, VFM, VBM and VTM models)
- 2.0" graphic LCD display (AFM, ATM, AFS, ABM, VFM, VTM, VBM and VFS models)
- 1.0" graphic LCD display (APS and VPS models)
- A/D conversion module
- Main board with processor
- 4-wire load cell connection (A-Series)
- 6-wire load cell connection (V-Series)

Devices:

- Initial zero setting
- Semi-automatic zero setting
- Zero tracking
- Semi-automatic subtractive tare balancing
- Determination of stability of equilibrium
- Zero indicator
- Net indicator
- Memory and totalisation
- Printing

Load cell:

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.
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation at the time of verification.
- The load cell transmission conforms to a standard type.

Technical data:

Power supply	9-12 VDC via mains adaptor (9V / 500 mA) 6 V / 4Ah rechargeable battery
Maximum number of scale intervals	10,000 for single interval or dual interval/range, Class III 1,000 for single interval or dual interval/range, Class IIII
Maximum tare	- 1/3 Max
Load cell excitation voltage	5 VDC
Minimum load cell impedance	85 Ω
Maximum load cell impedance	1100 Ω
Minimum input voltage per scale interval	1 μ V
Measuring range minimum voltage	-9.7 mV
Measuring range maximum voltage	19.5 mV
Maximum signal voltage for dead load	10 mV
Minimum signal voltage for dead load	0 mV
Fraction of maximum permissible error	$P_{ind} = 0.5$
Operating temperature range	-10°C / +40°C
Load cell connection (analogue load cells)	4 or 6-wire shielded 6-wire: maximum cable length 30 m

Interfaces:

- Load cell 4 or 6-wire shielded connection
- RS232C (Serial, D-SUB 9)
- Centronic Printer Port (Parallel, D-SUB 25)

Software:

The software is designated V1.2, this information can be displayed by selecting the F2 function.

Access to the legally relevant parameters is prevented by a jumper located on the main board.

Sealing:

The enclosures are sealed by a wire-and-seal method to prevent access to the jumper described above, the load cell connection is also sealed by a wire-and-seal method.

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-12.10	02 October 2012	Certificate first issued