National Measurement Office Certification

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

OIML Certificate No
R51/2006-GB1-13.04
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

Person responsible: **Paul Dixon – Director, Product Certification**

Applicant: **Digi Europe Ltd**
Digi House
Rookwood Way
Haverhill
Suffolk, CB9 8DG
United Kingdom

Manufacturer: **The applicant**

Identification of the certified pattern: **LI-700-D and CWL-700-D**

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 classes Y(a) and 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.

This revision replaces previous versions of the certificate.

Issue Date: **16 February 2015**
Reference No: **TS0101/0025**

Signatory: **G Stones**
for **Chief Executive**

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National Measurement Office

The conformity was established by tests and examination described in the associated pattern evaluation report P01220 Revision 1 which includes 23 pages.

Characteristics of the instrument:

This pattern of an automatic catchweigher, designated the LI-700-D, operates as an automatic weight or weight/price labeller (Category Y) and as an automatic checkweigher (category X). The instrument is designated the CWL-700-D when configured to operate only as an automatic checkweigher (category X).

The instrument comprises a self-indicating and price-computing weighing machine with associated thermal label printer and mechanical handling facilities. It is designed to weigh packs dynamically, at a constant rate of operation.

Pricing, pack and labelling information is stored in files called PLUs selectable by the operator for the commodity or labels being processed. Labels are printed for the above transaction data and are applied to the packs automatically.

Construction:

The LI-700-D comprises a weigher and a thermal label printer (labeller). The weigher and labeller are mounted on single fabricated floor standing stainless steel frame on adjustable stainless steel feet.

On the frame are mounted the scale conveyor and any additional in-feed and out-feed conveyors, any number may be used. Various conveyor sizes may also be used. In-feed guides may be fitted which are adjustable. Photocells are used for pack detection.

The control cabinet is located behind the conveyors, and houses the electronics and electrical control elements of the instrument as well as the display unit, which consists of a colour LCD touch screen and the PC main board.

The weighing system comprises a scale conveyor mounted on a load cell. Packs are weighed as they pass over the scale conveyor. The operating speed of the conveyor is fixed by the manufacturer with a maximum speed of 40m/min.

The printer mechanism comprises the print head, label feed and applicator. The printer mechanism is mounted on the frame and located above the out-feed conveyor and has adjustable height, lateral and rotational position. It contains the hardware necessary to print, feed and apply self-adhesive labels from a reel. The label application is powered by pneumatics, with a pressure regulator mounted on the frame of the weigher. The label applicator contains a vacuum device which is used to hold the label in place on the applicator. The label is then placed onto the pack as it reaches the required position. The Instrument may be configured for the conveyors to operate with either a left to right flow direction or a right to left flow direction.

The load cell is an HBM PW15 (Max ≤ 6 kg) or HBM PW30 (Max ≥ 6 kg).

Electrical:

The LI-700D weigher comprises the following:

- Aplex Technology combined PC and LCD display type AHM-6127A
- Teraoka/Digi Europe DSP A/D conversion PCB
- CIT-400W-Micro-ATX-Silent-PSU

Devices:

- Initial zero-setting device (≤ 4 % of Max)
- Semi-automatic zero-setting device (≤ 4 % of Max)
- Automatic zero-setting after time interval (≤ 15 min)
- Zero-tracking device
- Preset tare device
- Semi-automatic tare device (subtractive)
- Zero indication
- Static and dynamic calibration not accessible to user
- Price computation
- PLUs

Technical data:

Maximum capacity (Max)	≤ 10,000 g
Scale interval (e)	≥ 1 g
Minimum capacity (Min) (Max ≤ 6 kg)	≥ 50 g or 20 e (whichever is higher) (Class Y) ≥ 50 g (Class X)
Maximum number of scale intervals (n)	≤ 6,000
Tare (T)	≤ - 50% Max
Max operating rate*	≤ 65 packs/min
Max conveyor speed	≤ 40 m/min
Climatic environment	0 to 30 °C Non-condensing (closed)
Electromagnetic environment	E1 and E2
Power supply	220-240 V a.c. / 50-60 Hz single phase
Label applicator pneumatic pressure	4-6 bars
Accuracy classes	Y(a) and XIII(1)

Interfaces:

- Ethernet
- USB

Sealing:

Access to metrological settings is secured by a switch on the A/D board. The A/D board is enclosed by a metal case and is secured by a tamper-evident seal

Access to the static calibration facility is password protected. The instrument increments a calibration value (audit count number) each time it is re-calibrated. The value is recorded on a tamper evident label on the outside of the metal case protecting the A/D board. The current audit count number can be displayed via the About key in the Main Menu screen. Details of the secure metrological parameters can be displayed via the “Audit Query“ programme in the Windows operating screen.

Software:

The software version number is 2.xx.xx.xxxx which is displayed during the power-up sequence of the instrument.
The legal metrological code is contained within a dll file, HI700.dll. The dll file is protected by a checksum which is also displayed during the power-up sequence..

Alternatively, the instrument may use the World View software.
The legally relevant software is contained within two dll files, identified as follows in the “About” screen:

HeaderDisplay.dll	Version 1.0.0.10
HI710.dll	Version 1.0.0.79

Alternatives:

The instrument may be fitted with various types of DEL labellers, with up to 2 labellers per instrument, one of which may be configured as a bottom labeller.

Having the instrument designated the LIW-700-D, with W denoting an increased conveyor width.

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R51/2006-GB1-13.04	21 November 2013	Certificate first issued.
R51/2006-GB1-13.04 rev 1	16 February 2015	World View software added.