National Measurement Office Certification

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

OIML Certificate No
R51/2006-GB1-14.01

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

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

Applicant: **Società Cooperativa Bilanciai a.r.l.**
Via S. Ferrari No 16
41011 Campogalliano
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Italy

Manufacturer: **The applicant**

Identification of the certified pattern: **Selecta**

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: **10 March 2014**
Reference No: **TS0101/0022**

Signatory: **P R Dixon**
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 P01126 which includes 12 pages.

Characteristics of the instrument:

The instruments, designated the Selecta, are designed to operate as automatic checkweighers (Category X).

The instruments comprise a cabinet, a pole-mounted display and user interface, conveyors, a weighing device and mechanical handling facilities.

The instruments are designed to weigh packs dynamically.

Construction:

The instrument is constructed in stainless steel. The framework is a fabricated floor standing stainless steel frame on adjustable feet. On the frame are mounted the modular conveyor sections (in-feed, weigh platform, and out-feed). The conveyors type, number, size and shape are not restricted. The out-feed conveyor can be equipped with one of a number of reject devices, including a flipper, drop flap, ram or air blast. The in-feed or out-feed conveyors may be equipped with quality control system such as metal detectors or x-rays.

The instrument is designed to be permanently installed and is fitted with a level indicator located on the weigh platform.

The control cabinet is located behind of the conveyors and houses the electrical hardware.

Weighing unit:

The weigh platform may be fabricated with steel or aluminium support. The weighing device comprises a strain gauge load cell located below the centre of the weigh conveyor.

The load cell is as follows: Tedea load cell type 240 C3, E_{max} = 10 kg.

The system uses in-feed photocells to detect the arrival and passing of any packs (out-feed photocells are optional). The “Auto Zero” mode is active when there are no packs on the platform. Packs are weighed as they pass over the weigh conveyor, which runs continuously at the speed of the in-feed and out-feed conveyors. The weight signal is continually monitored to find the optimal point at which to take the final product weight. The analogue output is then sent to the load cell module to be digitised and processed.

Electrical:

The control cabinet, located behind the conveyors, houses the electrical hardware. A door at the back of the cabinet allows access to the hardware: A/D converter board type 404801, main board with CPU type Geode LX 800, 500 MHz or equivalent, power supplies, motor drivers and appropriate relays.

A pole-mounted display and user interface unit is located above the cabinet, and comprises an LCD touch screen. The interface allows viewing of weighing parameters and results, as well as access to the instrument’s various functions.

Devices:

- Automatic zero setting device active during automatic operation (at least every 4 min 50 s)
- Semi-automatic zero-setting (≤ 4% max)
- Initial zero-setting (≤ 20% max)
- Pre-set tare device (subtractive)
- Static calibration, not accessible to the user
- Dynamic calibration, accessible to the user, recorded
- Dynamic setting
- Belt speed setting, accessible to the user
- Internal memory for storage of batch data
- Device acting upon significant faults
- Screen check at power-up
- High resolution mode (0.1e) for testing purposes, not accessible to the user

Technical data:

Maximum capacity (Max):	≤ 1200 g	≤ 3000 g
Minimum capacity (Min):	≥ 50 g	≥ 50 g
Scale interval (e =):	≥ 0.2 g	≥ 0.5 g
Maximum number of scale intervals (n):	n ≤ 6000	
Tare (T):	50 to 80 g: T ≤ 35 % Gross 80 to 100 g: T ≤ 55 % Gross 100 to 1200 g: T ≤ 70 % Gross	50 to 80 g: T ≤ 35 % Gross 80 to 100 g: T ≤ 55 % Gross 100 to 3000 g: T ≤ 70 % Gross
Dynamic setting	50 g to 300 g = ± 20% preset weight 300 g to 500 g = ± 10% preset weight 500 g to 1200 g = ± 20% preset weight 1200 g to 3000g = ± 240g preset weight	
Belt speed:	≤ 80 m/min	
Climatic environment	5 °C to +40 °C	
	Non-condensing (closed)	
Electromagnetic environments	E1 and E2	
Power supply	220-240 Va.c. 50 Hz	
Accuracy class	XIII(1)	

Interfaces:

- Ethernet
- RS232
- RS422
- I/O board

Sealing:

Access to the load cell connection, A/D board and CF card is prevented by a sealed enclosure within the electrical cabinet.

Software:

The software is held on the CF card and comprises legally-relevant and non legally-relevant parts.

The software identification shall be as follows:

The A/D Converter software is designated “SCALE: 491064 x.x”, with x.x the release number that may change following minor modifications. The A/D converter software is fully legally relevant.

The main board software comprises two parts. The legally relevant part is designated “LEGAL.OUT 4.x.x”, with x.x the release number that may change following minor modifications. The non-legally relevant part can be freely modified (currently designed VER.SW 6.1.0).

The software identification can be accessed by pressing the bottom right icon, then “Ver.SW”

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R51/2006-GB-14.01	10 March 2014	Certificate first issued.
-	-	No revisions have been issued