

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

OIML Certificate No
R51/2006-GB1-14.01
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**
Person responsible: **Max Linnemann – Head of Certification Body**
Applicant: **Società Cooperativa Bilanciai Campogalliano
Via S. Ferrari No 16
41011 Campogalliano
Modena
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.

This revision replaces previous versions of the certificate.

Issue Date: **27 October 2016**
Reference No: **TS0101/0022**



G Stones
Technical Manager
For and on behalf of the Head of Certification Body

NMO | Stanton Avenue | Teddington | TW11 0JZ | United Kingdom
Tel +44 (0) 20 8943 7272 | Fax +44 (0) 20 8943 7270 | Web www.gov.uk/government/organisations/regulatory-delivery
NMO is part of the Regulatory Delivery directorate within the Department for Business, Energy and Industrial Strategy



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The conformity was established by testing and examinations described in the associated Evaluation Report P01126 Revision 1 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: Tedeia 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 ($\leq 4\%$ max)
- Initial zero-setting ($\leq 20\%$ 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):	≥ 20 g	≥ 20 g
Scale interval (e =):	≥ 0.2 g	≥ 0.5 g
Maximum number of scale intervals (n):	$n \leq 6000$	
Tare (T):	20 to 50 g: T $\leq 31\%$ Gross 50 to 80 g: T $\leq 35\%$ Gross 80 to 100 g: T $\leq 55\%$ Gross 100 to 1200 g: T $\leq 70\%$ Gross	20 to 50 g: T $\leq 31\%$ Gross 50 to 80 g: T $\leq 35\%$ Gross 80 to 100 g: T $\leq 55\%$ Gross 100 to 3000 g: T $\leq 70\%$ Gross
Dynamic setting	20 g to 300 g = $\pm 20\%$ preset weight 300 g to 500 g = $\pm 10\%$ preset weight 500 g to 1200 g = $\pm 20\%$ preset weight 1200 g to 3000g = ± 240 g preset weight	
Belt speed:	20 g to 50 g ≤ 55 m/min 50 g to Max ≤ 80 m/min	
Climatic environment	5 °C to $+40$ °C	
	Non-condensing (closed)	
Electromagnetic environments	E1 and E2	
Power supply	100-120 & 220-240 Va.c., 50/60 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 format is "SCALE: 491064 x.x", with x.x the release number that may change following minor modifications. The current designation is SCALE: 491064 1.0 Chk: 0x5601dc1b. 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 current designation is LEGAL.OUT 4.5.2 Chk 0x7387888.
- The non-legally relevant part can be freely modified, currently designated VER.SW 6.1.0.

Alternatives:

Having the A/D Converter software at Revision 2 designated SCALE: 491064 1.1 Chk: 0xf4a58fd7

Having the non-legally relevant part of the main board software at Revision 2 designated VER.SW 7.3.10.

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R51/2006-GB1-14.01	10 March 2014	Certificate first issued.
R51/2006-GB1-14.01 Revision 1	27 October 2016	Extended minimum capacity to 20 g with reduced belt speed. Software section editorial change. Alternatives added