

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

OIML Certificate No R51/2006-GB1-13.02

OIML CERTIFICATE OF CONFORMITY

Issuing authority: National Measurement Office

Person responsible: Paul Dixon – Product Certification Manager

Applicant: Ishida Europe Ltd

11 Kettles Wood Drive Woodgate Business Park Birmingham, B32 3DB

United Kingdom

Manufacturer: The applicant

Identification of the

certified pattern: DACS-G-F015 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 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: 07 November 2013

Reference No: TS0101/0020

Signatory: P R Dixon

for Chief Executive

National Measurement Office | Stanton Avenue | Teddington | TW11 0JZ | United Kingdom Tel +44 (0)20 8943 7272 | Fax +44 (0)20 8943 7270 | Web www.bis.gov.uk/nmo



The conformity was established by tests and examination described in the associated pattern evaluation report P01085 which includes 12 pages.

Characteristics of the instrument:

This family of mains-powered, dual-range, automatic weighing instruments is designated the DACS-G-F015 Series; the instruments operate as automatic checkweighers (Category X).

The models are designated DACS-G-F015-xx/xx-xx-x, with x reflecting the various configurations

Construction:

The instruments are constructed in stainless steel. The framework is a fabricated floor standing stainless steel frame on adjustable feet. On the frame are mounted the conveyors (in-feed, weigh and out-feed). The conveyors' type and size are not restricted.

The control cabinet is located behind of the conveyors and houses the electrical hardware. An enclosure located below the weigh conveyor houses the ADC board and the Dip-Switches protecting the legally-relevant parameters. The Remote Control Unit is mounted in the upper part of the control cabinet. Photocells mounted on the frame are used for pack detection. A printer is located on the side of the control cabinet.

Weighing unit:

The weighing device comprises a force balance electromagnetic cell located below the centre of the weigh conveyor.

The el force balance electromagnetic cell is an FBi2-1500 type, manufactured by Ishida Japan.

Packs are weighed as they pass over the weigh head conveyor which runs continuously at the speed of the in-feed and out-feed conveyors.

Electrical:

The weighing controller comprises the A/D converter located on the weigh board, and processes the load cell signal. The controller send the processed weigh signal and photo cell unit signal the DRV board which controls the infeed/outfeed conveyors.

The instruments are fitted with a jog-dial RCU, comprising an LED display, function and numerical keys, jog-dial.

Devices:

- Semi-automatic zero-setting device (≤ 4% Max)
- Automatic zero-setting devices (≤ 4% Max)
 - Every 18 min 50 s (Range 1) or 37 min 40 s (Range2)
 - When no pack has been detected
- Initial zero-setting (≤ 20% Max)
- Determination of stability of equilibrium
- Preset tare device
- Static calibration (not available to the user)
- Dynamic calibration (available to the user, recorded)

- Belt speed set up (available to the user)
- Dynamic setting (available to the user, range +/ 20 % of nominal weight)
- Events log
- Printing of batch data
- Display check at power up

Technical data:

Range	Range 1 (High Precision)	Range 2 (Standard)
Maximum capacity (Max):	750 g	1500 g
Minimum capacity (Min):	5 g	15 g
Scale interval (e =):	0.1 g	0.2 g
Maximum number of scale intervals (n):	7500	
Tare (T):	5 g to 15 g T ≤ - 10 % Gross 15 g to 50 g T ≤ - 30 % Gross 50 g to 1500 g T ≤ - 75 % Gross	
Belt speed:	5 to7.5 g: 50 m/min 7.5 to10 g: 70 m/min 10 to 200 g: 90 m/min 200 to 750 g: 120 m/min	15 to200 g: 90 m/min 200 to 1500 g: 100 m/min
Climatic environment	+5°C to +40 °C	
Climatic environment	Non-condensing (closed)	
Electromagnetic environments	E1 and E2	
Power supply	240 Va.c. 50 Hz	
Accuracy class	XIII(1)	

Interfaces:

Ethernet

Sealing:

The load cell casing and dip-switches are sealed via a tamper-evident solution.

Software:

The legally relevant software shall be as follows:

ADC Version number (ADC): N-51012B

MCU Version number (WM-ID): 2.1

MCU Checksum (WM-CHK): 3222-YYYY

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R51/2006-GB1-13.02	07 November 2013	Certificate first issued.