

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

OIML Certificate No  
R107/2007-GB1-13.01

## 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  
Modena  
Italy**

Manufacturer: **The applicant**

Identification of the  
certified pattern: **DDxxxxHS**

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 107 - Edition 2007(E) for accuracy class: 0.2 or greater**

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:** 15 April 2013  
**Reference No:** TS0103/0003

  
**Signatory: P R Dixon  
for Chief Executive**

The conformity was established by tests described in the associated pattern evaluation report P00962 which includes 13 pages.

### **Characteristics of the instrument:**

This pattern of an automatic discontinuous totalising instrument designated the DDxxxxHS is designed to totalise loads of powder or granular materials, and comprises a weight indicator and a weighing unit comprising of a weighing hopper supported by load cells. Additional PLCs may be used to provide various inputs, a remote PC may also be used to edit the batch and product parameters and command the operation.

#### Main features:

- Weight indicator
- Weighing unit
- Feeding device
- Discharge unit
- Optional printer

#### Weighing unit:

The weighing unit comprises a weigh hopper supported by strain gauge or digital load cells, with or without lever-works.

#### 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.

Digital load cells type CPD-M and junction box type DILINK may be connected to the indicator.

#### Weight indicator:

The weight indicator may be one of the following:

- DD1050HS, DD1050iHS or DD2050HS  
(As described in OIML Certificate R76/2006-GB1-12.02)
- DD1010HS, DD1010IHS, DD1010ICHHS, DD1010HHS, DD1010IHHS or DD1010ICHHS  
(As described in OIML Certificate R76/2006-GB1-12.14)

Note: The designation HS refers to modified software for Hopper Scale applications, the software information shall be as described in this certificate.

Devices:

- Semi-automatic zero setting device ( $\leq 4\%$  of Max)
- Net weighing
- Totalisation indicating device
- Coarse/fine feeding
- Alibi storage
- Printing

Technical data:

Maximum Capacity (Max):	Dependent upon application
Minimum Load (Min):	Dependent upon application
Minimum totalised load ( $\Sigma_{\min}$ ):	Min $\leq \Sigma_{\min} \geq 1000 d_t$ for class 0.2 $\geq 400 d_t$ for class 0.5 $\geq 200 d_t$ for class 1 $\geq 100 d_t$ for class 2
Scale interval ( $d_t$ ):	$0.01 \% \text{ Max} \leq d_t \leq 0.2 \% \text{ Max}$
Number of scale intervals (n):	$\leq 6,000$
Accuracy Class:	$\geq 0.2$
Temperature range:	$-10 / + 40 \text{ }^\circ\text{C}$
Rate of operation:	Fixed at initial verification
Product and batch parameters:	Editing prevented during automatic operation

Operation:

The weighing parameters for the totalisations (product characteristics, target weight, batch weight, coarse/fine feeding points...) can be selected via the user interface. A remote PC may also be used to edit the parameters and start/stop of automatic operation.

The instrument operates as follows:

- Totalisation parameters entered via the user interface
- Start automatic operation button pressed
- Product fed into the weigh hopper (coarse then fine)
- Product feeding stops when the weight reaches the batch weight set point
- Instrument captures the weight of the full hopper
- Product discharged until the empty weight reaches the empty weight set point
- Instrument captures the weight of the empty hopper
- Net weight calculated for the cycle
- Cycle repeated until target weight is achieved

The complete data for each totalisation is recorded on the MPP alibi memory held within the indicator, and comprises all the information necessary to reconstruct the measurement.

Note: Manual operation is not covered by this certificate and shall not be used for legal-for-trade applications. The instrument may print the weighing data for the totalisations, printouts shall not be used as legal records (Alibi records to be used as legal records).

Interfaces:

As per OIML Certificates R76/2006-GB1-12.02 and R76/2006-GB1-12.14.

Sealing:

Physical or software means as described in OIML Certificates R76/2006-GB1-12.02 and R76/2006-GB1-12.14.

The load cells and SD card shall be sealed using tamper-evident labels or wire-and-seal solution.

Software:

Weighing board:

DD1050HS, DD1050iHS and DD2050HS:

	Identification	Release	Checksum
Analogue version:	491039	1.0	85E2
Digital version:	491040	1.0	B664

DD1010HS, DD1010iHS, DD1010iCHS, DD1010HHS, DD1010IHHS and DD1010ICHHS:

	Identification	Release	Checksum
Analogue version 5 VDC:	491032	1.1	325e
Analogue version 10 VDC:	491039	1.1	ce47
Digital version:	491040	1.1	7c08

Main board (all models):

Module	Release	Checksum
PluginBilancia.dll	3.1.1.2	EEC0414D99D9D4E74F236E407455B68A047937B5
PluginCbWeightViewerH.dll	3.3.0.0	0C88143ACBFF11B2F212218B8613B176517F8D00
PluginCbMpp.dll	3.1.1.4	6FE313655513FACF1DB5C12174CDB24E2DC8C8C6

**Certificate History**

ISSUE NO.	DATE	DESCRIPTION
R107/2007-GB1-13.01	15 April 2013	Certificate first issued