



Member State of OIML United Kingdom of Great Britain and Northern Ireland OIML Certificate No R76/2006-GB1-14.08

OIML CERTIFICATE OF CONFORMITY

Issuing authority:	National Measurement Office	
Person responsible:	Paul Dixon – Director, Product Certification	
Applicant:	Società Cooperativa Bilanciai a.r.l. Via S. Ferrari No 16 41011 Campogalliano Modena Italy	
Manufacturer:	The applicant	
Identification of the certified pattern:	DD700, DD700IC and DD700I	

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 76 - Edition 2006(E) for accuracy class: [III] and [IIII]

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:01 July 2014Reference No:TS1201/0086

Signatory: G Stones 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.gov.uk/nmo



Page 1 - This certificate includes 4 pages

The conformity was established by tests described in the associated pattern evaluation report P01226 which includes 13 pages.

Characteristics of the instrument:

Characteristics:

The indicating devices are designated the DD700, DD700IC and DD700I indicators. The indicators are self-indicating, mains or DC-powered, and are designed to be used as part of a Class III or IIII, non-automatic weighing instrument.

Main features:

DD700

- ABS enclosure
- 240x64 graphics LCD display with 18 keys keyboard
- External power supply
- Main board with processor with A/D converter (2 multiplexed inputs)

DD700IC

- Stainless steel enclosure with cable connectors
- 240x64 graphics LCD display with 18 keys keyboard
- Exernal power supply
- Main board with processor with A/D converter (2 multiplexed inputs)

DD700I

- Stainless steel enclosure with cable glands
- 240x64 graphics LCD display with 18 keys keyboard
- Internal power supply
- Main board with processor with A/D converter (2 multiplexed inputs)
- Multicolour LED bar (optional)

Devices:

- Initial zero setting
- Semi-automatic zero setting
- Zero tracking
- Automatic zero setting (negative load indications for more than 5 s)
- Semi-automatic subtractive tare weighing
- Determination of stability of equilibrium
- Indication of stability of equilibrium
- Zero indicator
- Preset tare
- MPP Alibi storage device
- Multiplexed scale inputs: scale selection (up to 2 scales) via function key
- Counting mode
- Load receptors summation
- "Weighbridge modes":
 - AdR (or RDA): stores vehicle information except weights IN and OUT
 - RcD: unknown vehicles, stores weight IN until weight OUT captured, record then deleted
 - RpD (or RCP): stores vehicle information including weight IN
- Identification and recognition of the weighing board(s): the instrument records the A/D Converter unique identification number for each weighing channel, a new calibration is required if that number is not recognised at power up.

- Identification and recognition of the digital load cells and junction box type DILINK: the instrument records the unique S/N of each digital load cell and/or the A/D Converter unique identification number of DILINK junction box for each weighing channel, a new calibration is required if these numbers are not recognised at power up
- Weight data transmission in open networks or wireless transmission in protected mode utilising protocols complying with Welmec 7.2 (encrypted transmission of weight data to a remote indicator). The load receptor and the indicator displaying the weighing result must be simultaneously visible to the operator (directly or indirectly) in this configuration.
- Optional connection to an external PC and subsequent printing of measurement data from the PC using the data from the MPP Alibi storage device on the indicator
- Optional connection to an external PC allowing printing of measurement data stored on an external PC using the data from the MPP Alibi storage device on the indicator
- Connection to digital load cells type CPD-M
- Connection to smart junction box type DILINK

Interfaces:

- Load cell 6-wire shielded connection (analogue/digital)
- RS232/422/485
- Ethernet
- 0-10 V / 0-20 mA analogue input/output
- Digital I/O
- Field bus (Profibus...)
- USB host
- USB client

Technical data:

Power supply	110 – 240 VAC, 50 / 60 Hz	
	12 VDC via mains adaptor	
Maximum number of scale intervals	6000 for single interval, Class III	
	4000 for multi-interval/range (2 partial ranges), Class III	
	3000 for multi-interval/range (3 partial ranges), Class III	
	1000 for single and multi-interval/range (2 and 3 partial ranges), Class III	
Maximum tare	- Max	
Maximum Preset Tare	- Max (single and multi-range)	
	- Max ₁ (multi-interval)	
Load cell excitation voltage	5 VDC	
	(10-18 VDC for digital load cells)	
Minimum load cell impedance	29 Ω (per weighing module)	
Maximum load cell impedance	1100 Ω	
Minimum input voltage per scale interval	0.5 μV	
Measuring range minimum voltage	0 mV	
Measuring range maximum voltage	27-30 mV	

Fraction of maximum permissible error	P _{ind} = 0.5	
	(P _{ind} = 0 for digital load cells)	
	(P _{ind} = 0 for analogues load cells with junction	
	box DILINK)	
Operating temperature range	-10°C / +40°C	
Load cell connection (analogue load cells)	6-wire shielded	
	Max length 15,162 m/mm ²	

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.

Sealing:

Access to the calibration and metrological configuration is only possible via a protected switch located on the instrument.

Software:

The legally-relevant software comprises the following modules (with x reflecting minor, non legally-relevant changes):

	Identification	Release	Checksum
Metrological software	BIL001	1.x	1CA3
Boot:	59300003	1.x	1691

The software information can be displayed by pressing the right arrow key and simultaneously switching on the indicator.

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-14.08	01 July 2014	Certificate first issued
-	-	No revisions have been issued.