OIML Member State United Kingdom of Great Britain and Northern Ireland	**OIML Certificate No.** **R76/2006-A-GB1-18.13**

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority	**NMO** **Stanton Avenue** **Teddington** **TW11 0JZ** **United Kingdom**
Person responsible:	**Mannie Panesar – Head of Technical Services**
Applicant	**Società Cooperativa Bilanciai Campogalliano** **Via S. Ferrari n.16** **41011 Campogalliano (MO)** **Italy**
Manufacturer	**The applicant**
Identification of the certified type	**DD700, DD700I, DD700IC** *(the detailed characteristics are defined in the Descriptive Annex)*

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 76-1, Edition: 2006

For accuracy class: III and IIII

The OIML Issuing Authority

Issue date: 23 August 2018

Grégory Glas
Lead Technical Manager
For and on behalf of the Head of Technical Services

NMO I Stanton Avenue I Teddington I TW11 OJZ I United Kingdom
Tel +44 (0) 20 8943 7272 I Fax +44 (0) 20 8943 7270 I Web www.gov.uk/government/organisations/office-for-product-safety-and-standards
NMO is part of the Office for Product Safety and Standards within the Department for Business, Energy & Industrial Strategy

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. P02479 dated 23 August 2018 that includes 18 pages.

The technical documentation relating to the identified type is contained in documentation file:

No. P02479-D dated 23 August 2018.

OIML Certificate History

Revision No.	Date	Description of the modification
0	23 August 2018	OIML Certificate first issued.
-	-	-

This revision replaces previous versions of the certificate.

Important note:
Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

DESCRIPTIVE ANNEX

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)

DD700 Panel mount version

- Stainless steel enclosure with cable connectors
- Panel construction designed for placement in a rack
- 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
- External 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 (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 IIII
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.

Alternatives:

There are currently no authorised alternatives.