



Australian Government
**Department of Industry,
Science and Resources**

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval
NMI 6/13/5

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Dini Argeo Model MCW09T6-1 Weighing Instrument

submitted by Dini Argeo S.r.l.
Via della Fisica 20
41042 Spezzano di Fiorano
Modena
Italy

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated October 2015.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 4 approved – certificate issued	12/06/24

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/13/5' and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate of Approval No S1/0B.

This approval shall NOT be used in conjunction with General Certificate No 6B/0.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in blue ink, appearing to be 'Darryl Hines', written in a cursive style.

Darryl Hines
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/13/5

1. Description of Pattern

approved on 12/06/24

A Dini Argeo model MCW09T6-1 (#1) class **III** self-indicating non-automatic freely-suspended weighing instrument (Figure 1) with a maximum capacity of 6000 kg and verification scale interval of 2 kg, and with a minimum capacity of 40 kg and a stainless steel construction.

(#1) An alphanumeric suffix 'xxx' may be added to the model number but these represent features which are non-legally relevant.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

1.1 Resistant Mechanism

The Dini Argeo model MCW09T6-1 instrument uses a Dini Argeo model STU8000-1KL tension load cell of 8000 kg maximum capacity, having a classification of C4.

The instrument is suspended from a bow shackle attached to the top of the load cell, and a bow shackle is attached below the load cell for suspension of the load.

1.1.1 Load Cell connection

Load cell is connected to the indicator directly without a junction box or lengthening the cable.

1.2 Indicator

The instrument has a Dini Argeo model DFWDXT indicator with an LED display for display of the weight value.

The indicator is similar to variant 14 in the Supplementary Certificate of Approval No S788 but with a different shape of stainless steel enclosure.

1.3 Zero

A zero-tracking device may be fitted.

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.4 Tare

A semi-automatic subtractive taring device of up to the maximum capacity of the instrument may be fitted.

1.5 Display Check

A display check is initiated whenever power is applied.

1.6 Power Supply

The instrument is powered by a rechargeable 6 V DC battery pack.

1.7 Additional Features

The instrument may be provided with a remote control device using either RF (radio frequency) or 'Bluetooth' technology, for remote operation of the instrument functions. Output interfacing capability of the instrument may be provided via such remote control devices.

The instrument may have additional functions which operate via a function key (such as HOLD function) of the indicator or a remote control device (such as HOLD and SUM, CLEAR functions) of the instrument. The additional functions (other than the indications of measured mass, i.e. gross, tare, net, displayed either on the indicator or on an auxiliary or peripheral device), are not approved for trade use.

1.8 Sealing Provision

Provision is made for the calibration to be sealed by setting a link on the main board within the instrument to 'OPEN' position, and then preventing access within the protective cover (Figure 5) or within the instrument housing.

It is possible to determine that the link status is in the 'OPEN' position by pressing the '↑' key to enter setup menu when the power is first applied to the indicator.

- If the link is in the 'OPEN' position, the instrument will not allow to change instrument configurations. In this case the instrument may be verified.
- Otherwise the instrument will allow to change instrument configurations in which case the instrument should not be verified until the link has been correctly set to the 'OPEN' position.

Sealing to prevent access within the protective housing may be achieved by using a destructible adhesive label placed over the securing screw in the protective cover within the instrument as shown in Figure 5 or destructible adhesive labels placed over the opposite sides of a join in the instrument housing.

1.9 Verification Provision

Provision is made for the application of a verification mark.

1.10 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Dini Argeo S.r.l.
Indication of accuracy class	III
Maximum capacity	Max kg #1
Minimum capacity	Min kg #1
Verification scale interval	e = kg #1
Serial number of the instrument
Pattern approval number for the instrument	NMI 6/13/5

#1 These markings shall be shown near the display of the result.

1.11 Software

The legally relevant software is identified by a number 02.01.

The instrument type number and software version number can be seen by pressing the '↓' key during the switch-on display sequence (when the power is first applied to the instrument).

2. Description of Variant 1 **approved on 12/06/24**

The MCW09 series instruments in certain other capacities and characteristics, and use load cells as listed in Table 1, as shown in Figure 1 (the pattern is shown in **bold**).

TABLE 1

Model	Maximum Capacity (<i>Max</i>) (kg)	Minimum Capacity (<i>Min</i>) (kg)	Verification Scale Interval (<i>e</i>) (kg)	Dini Argeo Load Cell (<i>E_{max}</i>)
MCW09T3-1	3000	20	1	STU8000-1KL 8000 kg
MCW09T6-1	6000	40	2	STU8000-1KL 8000 kg
MCW09T9-1	9000	100	5	STU10000-1KL 10 000 kg

3. Description of Variant 2 **approved on 12/06/24**

The MCWN ‘Ninja’ series instruments which are similar to the pattern but having a mild steel construction and fitted with a Dini Argeo model DFWL indicator and in certain capacities and characteristics, and use load cells as listed in Table 2 , and as shown in Figure 2.

The MCWN ‘Ninja’ series instruments are powered by a rechargeable 6 V DC battery pack.

The indicator is also described in the documentation of approval NMI S788.

TABLE 2

Model	Maximum Capacity (<i>Max</i>) (kg)	Minimum Capacity (<i>Min</i>) (kg)	Verification Scale Interval (<i>e</i>) (kg)	Dini Argeo Load Cell (<i>E_{max}</i>)
MCWNT1M-3	1500	10	0.5	STU2500-1KL 2500 kg
MCWNT3M-3	3000	20	1	STU8000-1KL 8000 kg
MCWNT6M-3	6000	40	2	STU8000-1KL 8000 kg
MCWNT9M-3	9000	100	5	STU10000-1KL 10 000 kg

4. Description of Variant 3 **approved on 12/06/24**

The MCW ‘Professional’ series instruments which are similar to the patten but fitted with a Dini Argeo model DFWKXT indicator and in certain capacities and characteristics, and use Dini Argeo model SBX load cells as listed in Table 3, and as shown in Figure 3.

The MCW ‘Professional’ series instruments are powered by a rechargeable 6 V DC battery pack.

The indicator is similar to variant 18 in the Supplementary Certificate of Approval No S788 but with a different shape of stainless steel enclosure and 5 function keys (instead of alphanumeric keypad).

The instrument is suspended from an eye-bolt attached to the top of the load cell, and a hook is attached below the load cell for suspension of the load.

Table 3

Model	Maximum Capacity (Max) (kg)	Minimum Capacity (Min) (kg)	Verification Scale Interval (e) (kg)	Dini Argeo Load Cell (E_{max})
MCW150MR2-1	150	1	0.05	SBX500-1KL C3 500 kg
MCW300MR2-1	300	2	0.1	SBX500-1KL C3 500 kg
MCW600MR2-1	600	4	0.2	SBX1000-1KL C3 1000 kg

5. Description of Variant 4 approved on 12/06/24

The MCWX2GD series instruments which are similar to variant 3, but fitted with a Dini Argeo model DFWTEX2GD indicator and in certain capacities and characteristics, and use Dini Argeo model SBX load cells as listed in Table 4, and as shown in Figure 4.

The MCWX2GD series instruments are powered by a rechargeable 6 V DC battery pack.

The indicator is similar to variant 19 in the Supplementary Certificate of Approval No S788 but with a different shape of stainless steel enclosure.

The instrument is suspended from an eye-bolt attached to the top of the load cell, and an eye-bolt is attached below the load cell for suspension of the load.

Table 4

Model	Maximum Capacity (Max) (kg)	Minimum Capacity (Min) (kg)	Verification Scale Interval (e) (kg)	Dini Argeo Load Cell (E_{max})
MCWX2GD600M-1	600	4	0.2	SBX1000-1KL C3 1000 kg

TEST PROCEDURE No 6/13/5

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/13/5 – 1



Dini Argeo MCW09 Series Weighing Instrument

FIGURE 6/13/5 – 2



Dini Argeo MCWN 'Ninja' Series Weighing Instrument (Variant 1)

FIGURE 6/13/5 – 3



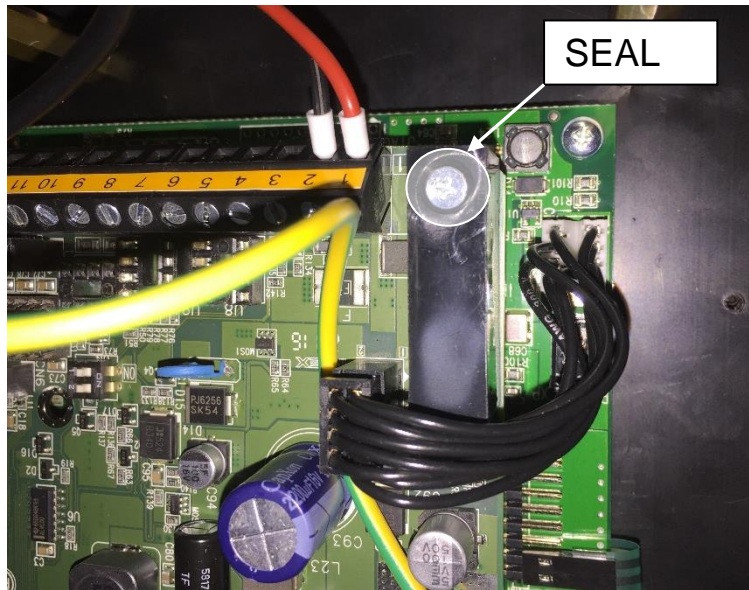
Dini Argeo MCW 'Professional' Series Weighing Instrument (Variant 2)

FIGURE 6/13/5 – 4



Dini Argeo MCWX2GD Series Weighing Instrument (Variant 3)

FIGURE 6/13/5 – 5



Typical Sealing of Protective Cover

~ End of Document ~