



Australian Government
Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4C/328

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.

Datalogic Model Magellan 9622 Weighing Instrument

submitted by Datalogic S.r.l.
Via San Vitalino 13
40012 Lippo di Calderara di Reno
Bologna
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	24/10/22
1	Variants 5 to 7 approved – certificate issued	03/07/23

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/328' and only by persons authorised by the submittor.

It is the submittor'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.


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



Darryl Hines
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/4C/328

1. Description of Pattern **approved on 24/10/22**

A Datalogic model Magellan 9622 class  multi-interval self-indicating non-automatic weighing instrument (Figures 1a and 1b) with a verification scale interval e_1 of 0.002 kg up to 6 kg and with a verification scale interval e_2 of 0.005 kg from 6 kg to the maximum capacity of 15 kg. The minimum capacity is 0.04 kg.

Instruments are fitted with one or two model 8300RD displays mounted on a column (Figure 2a). Instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless two displays are present or unless the single display is located such that all primary indications are clearly and simultaneously displayed to both the vendor and the customer.

Instruments may be fitted with a Mettler Toledo SLP231D C3 digital load cell of 30 kg maximum capacity. The platter size is 280 mm x 421 mm.

Instruments are fitted with a weighing platform attachment ('produce rail') on the front edge of the weigh platter, which is part of the 'live' weight receptor, as shown in Figure 1.

Instruments are approved for use over a temperature range of +10°C to +40°C and must be so marked.

Instruments use a PHIHONG model PSAA18U-120 (output 12 V DC, 1.5 A) AC/DC power supply; the submitter should be consulted regarding the acceptability of alternatives.

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

Note: Surge testing has not been carried out on signal lines as the manufacturer has indicated that typical installations risk of a significant influence of surges is not expected – i.e. intended installation is wholly indoors with signal lines of 30 m or less.

1.1 Zero

A zero-tracking device may be fitted.

The initial zero-setting device of the pattern 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.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Scanner

Instruments are provided with an integral image scanner for reading bar codes.

1.4 Levelling

The instrument is intended to be installed in a fixed position (e.g. a supermarket check-out) and hence is not fitted with adjustable feet.

1.5 Interfaces

Instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document NMI R76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with NMI General Supplementary Certificate of Approval No S1/0B (in particular in regard to the data and its format).

Instruments may be fitted with remote display (RJ4), scale host and POS terminal (RJ10) interfaces.

1.6 Verification Provision

Provision is made for the application of a verification mark.

1.7 Sealing Provision

Provision is made for access to the calibration switch which is located beneath the load receptor to be sealed by means of lead and wire type seals through the holes provided, or a destructible label placed across the join between the scanner body and the protective cover as shown in (Figure 3).

1.8 Software

The legally relevant software is designated c0Ξ4=0-6b01-AF5AAAb60 2-14-2-00-17 where 6b01 refers to the load cell checksum, 2-14 refers to the identification of weighing embedded software and 2-00-17 refers to the identification of signal processing embedded software.

Note: c0Ξ4=0 string is not metrologically relevant and varies.

The scrolling software versions and numbers can be seen on the integrated seven segment LED display as shown Figure 4 by pushing and holding the '→0←' button for five seconds. The long string of characters repeats three times, and then the instrument automatically will reset.

1.9 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Datalogic S.r.l. #2
Indication of accuracy class	Ⓜ
Pattern approval mark for the instrument	NMI 6/4C/328
Maximum capacity	Max g or kg #1
Minimum capacity	Min g or kg #1
Verification scale interval	e = g or kg #1
Special temperature limits	+10 °C to +40 °C
Serial number of the instrument

#1 These markings are shown near the display of the result.

#2 Instruments are manufactured in USA or Vietnam.

Note:

For multi-interval instruments the markings shall be as above, with the exception that the 'Maximum capacity' and 'Verification scale interval' shall be marked for both interval ranges, e.g. as follows:

Maximum capacity *Max*/..... g or kg
Verification scale interval *e* =/..... g or kg

2. Description of Variant 1 **approved on 24/10/22**

The model Magellan 9622 single interval instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

3. Description of Variant 2 **approved on 24/10/22**

The model Magellan 9621 (Figures 5a and 5b) which is similar to the pattern and variant 1 except that it has a shorter, 280 mm x 383 mm, platter.

4. Description of Variant 3 **approved on 24/10/22**

The models Magellan 9922 (Figure 6) and Magellan 9921 (Figure 7), which are the same as the models 9622 and 9621, respectively, except that these models have low bonnets.

5. Description of Variant 4 **approved on 24/10/22**

Instruments may be fitted with one or two model 960RD displays (Figure 2b) each mounted on a separate column instead of the displays of the pattern. Instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless two displays are present or unless the single display is located such that all primary indications are clearly and simultaneously displayed to both the vendor and the customer.

6. Description of Variant 5 **approved on 03/07/23**

The pattern or variants may be fitted with a 7-port Ethernet switch (Figure 8), an internal horizontal colour camera module and a Tensor Processing Unit (TPU).

6.1 Power Supply

The 7-port Ethernet switch is powered by a separate PHIHONG switching power supply model PSA120U-480L6 (output 48 V DC, 2.5 A) AC/DC mains adaptor; the submitter should be consulted regarding the acceptability of alternatives.

The Ethernet switch provides interface with the mainboard of the instrument and supplies power to colour camera module(s) and Top Down Reader/Top Down Reader with customer facing reader (CFR) via the connection of the devices to the Ethernet ports.

7. Description of Variant 6 **approved on 03/07/23**

The models Magellan 9922 and Magellan 9921 may be fitted with a Top Down Reader (Figure 9a) or Top Down Reader with customer facing reader (Figure 9b).

8. Description of Variant 7 **approved on 03/07/23**

The models Magellan 9622 and Magellan 9621 may be fitted with an internal vertical colour camera module.

TEST PROCEDURE No 6/4C/328

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*.

For multi-interval and multiple range instruments with verification scale intervals of $e_1, e_2 \dots$, apply e_1 for zero adjustment, and maximum permissible errors apply $e_1, e_2 \dots$, as applicable for the load.

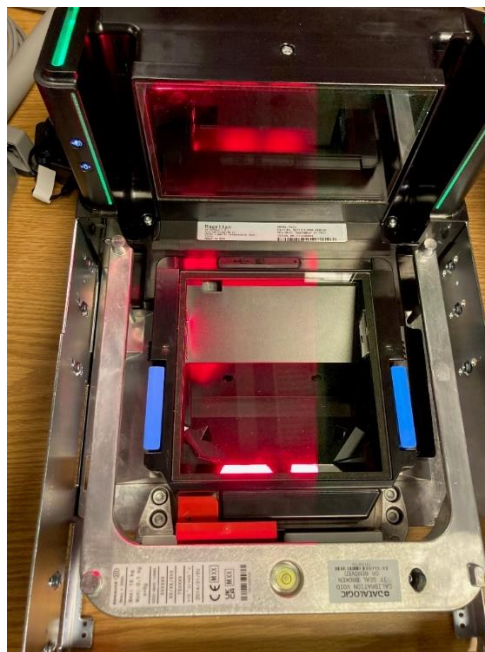
Tests

Ensure that instruments are only being used within the special temperature limits stated elsewhere in this Technical Schedule.

FIGURE 6/4C/328 – 1



(a) Datalogic Model Magellan 9622 Weighing Instrument (Pattern)



(b) Datalogic Model Magellan 9622 Weighing Instrument
With Load Receptor Plate Removed (Pattern)

FIGURE 6/4C/328 – 2

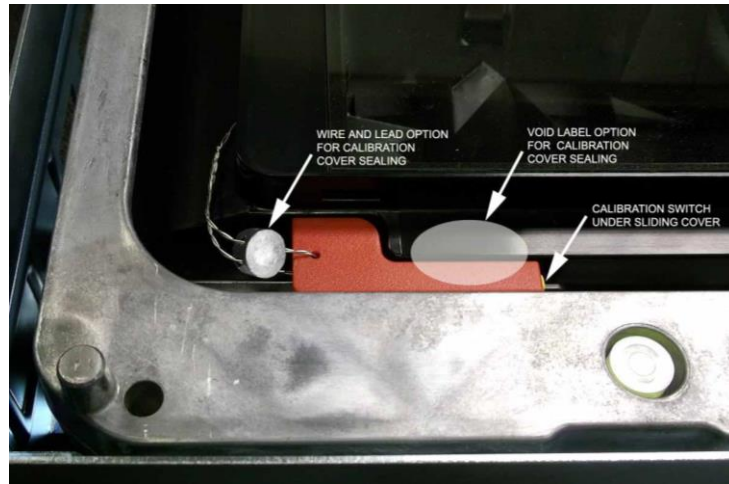


(a) Two Model 8300RD Displays



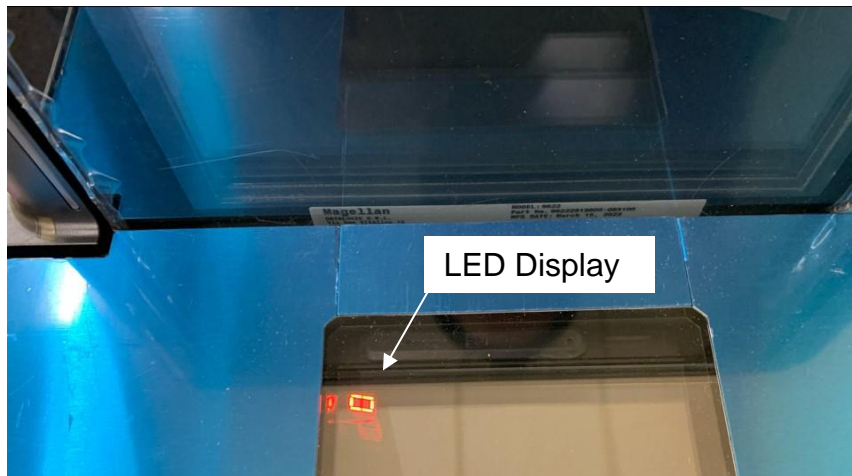
(b) Datalogic Model 960RD Display

FIGURE 6/4C/328 – 3



Typical Sealing Methods

FIGURE 6/4C/328 – 4



Seven Segment LED Display for Software Versions and Numbers

FIGURE 6/4C/328 – 6



Datalogic Model Magellan 9922 Weighing Instrument (Variant 3)

FIGURE 6/4C/328 – 7



Datalogic Model Magellan 9921 Weighing Instrument (Variant 3)

FIGURE 6/4C/328 – 8



7-Port Ethernet Switch (Bottom Row of Ports)

FIGURE 6/4C/328 – 9



(a) Top Down Reader



(b) Top Down Reader with Customer Facing Reader

~ End of Document ~