



Australian Government  
Department of Industry,  
Innovation and Science

## National Measurement Institute

# Certificate of Approval NMI 6/4C/291

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 939406 Weighing Instrument

submitted by **Datalogic USA, Inc.**  
(formerly Datalogic ADC, Inc.)  
959 Terry Street  
Eugene, Oregon 97402  
USA

**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 July 2004.

This approval becomes subject to review on 1/02/20, and then every 5 years thereafter.

### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 & 2 provisional approved – interim certificate issued	28/01/15
1	Pattern & variants 1 to 3 approved – interim certificate issued	27/05/15
2	Pattern & variants 1 to 3 approved – certificate issued	15/10/15
3	Pattern & variants amended (submitor <b>name</b> ) – certificate issued	31/01/17

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/291' and only by persons authorised by the submitter.

Instruments purporting to comply with this approval and currently marked 'NMI P6/4C/291' may be re-marked 'NMI 6/4C/291' but 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 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*.



**Dr Amanda Rawlinson**

TECHNICAL SCHEDULE No 6/4C/291

**1. Description of Pattern** **provisionally approved on 31/1/15**  
**approved 27/05/15**

A Datalogic model Magellan 939406 class Ⅲ multi-interval self-indicating non-automatic weighing instrument (Figures 1 and 2) 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.

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 SLP33xD load cell of 30 kg maximum capacity. The platter size is 292 mm x 508 mm.

Instruments may be fitted with an extended (vertical) weighing platform attachment ('produce rail'), 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, 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.

**1.1 Zero**

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 zero-tracking device with a nominal range of not more than 4% 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 Supplementary Certificate No S1/0/B (in particular in regard to the data and its format).

Instruments may be fitted with USB interface, Image Port, Scale host, electronic Article Surveillance (EAS) interface, POS terminal and AUX interfaces.

## 1.6 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).

## 1.7 Software


The legally relevant software is designated C3E5=0-F0dF-1234 2-0-0 1-70-28 where F0dF refers to the load cell checksum, 2-0-0 refers to the identification of weighing embedded software and 1-70-28 refers to the identification of signal processing embedded software.

Note: C3E5=0 string is not metrologically relevant.

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 '▶!◀' button for four seconds.

## 1.8 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Datalogic USA, Inc.
Indication of accuracy class	
Pattern approval mark for the instrument	NMI 6/4C/291
Maximum capacity	<i>Max</i> ..... g or kg #1
Minimum capacity	<i>Min</i> ..... g or kg #1
Verification scale interval	<i>e</i> = ..... 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.

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	<i>Max</i> ...../..... g or kg
Verification scale interval	<i>e</i> = ...../..... g or kg

## 1.9 Verification Provision

Provision is made for the application of a verification mark.

### 2. Description of Variant 1 **provisionally approved on 31/1/15** **approved 27/05/15**

The model Magellan 939406 single interval instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

### 3. Description of Variant 2 **provisionally approved on 31/1/15** **approved 27/05/15**

The model Magellan 939404 (Figure 5) which is similar to the pattern and variant 1 except that it has a shorter, 292 mm x 401 mm, platter.

### 4. Description of Variant 3 **approved on 27/05/15**

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.

## TEST PROCEDURE No 6/4C/291

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*.

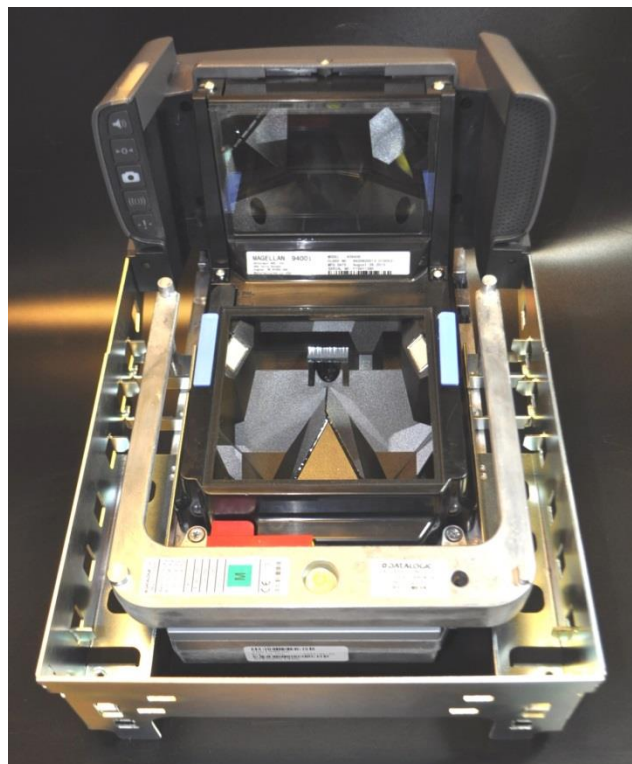
### Tests

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

FIGURE 6/4C/291 – 1



(a) Datalogic Model Magellan 939406 Weighing Instrument (Pattern)



(b) Datalogic Model Magellan 939406 Weighing Instrument  
With Load Receptor Plate Removed (Pattern)

FIGURE 6/4C/291 – 2

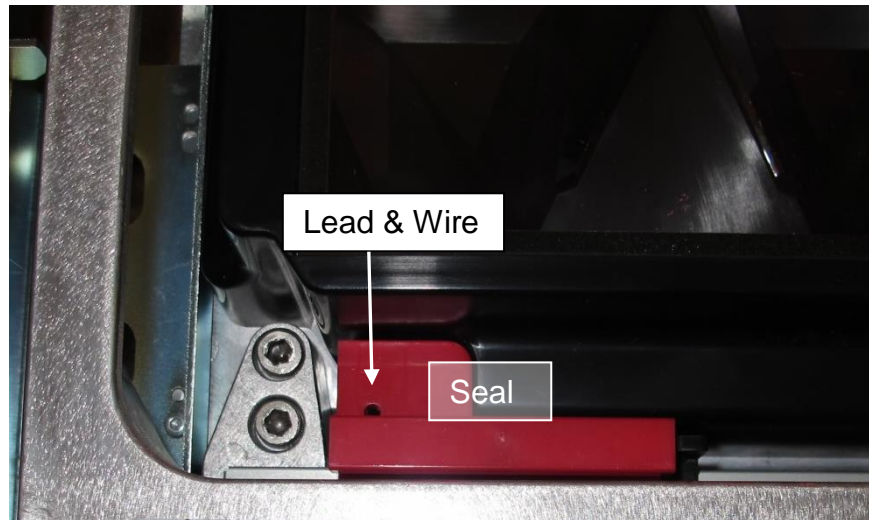


(a) Two Model 8300RD Displays



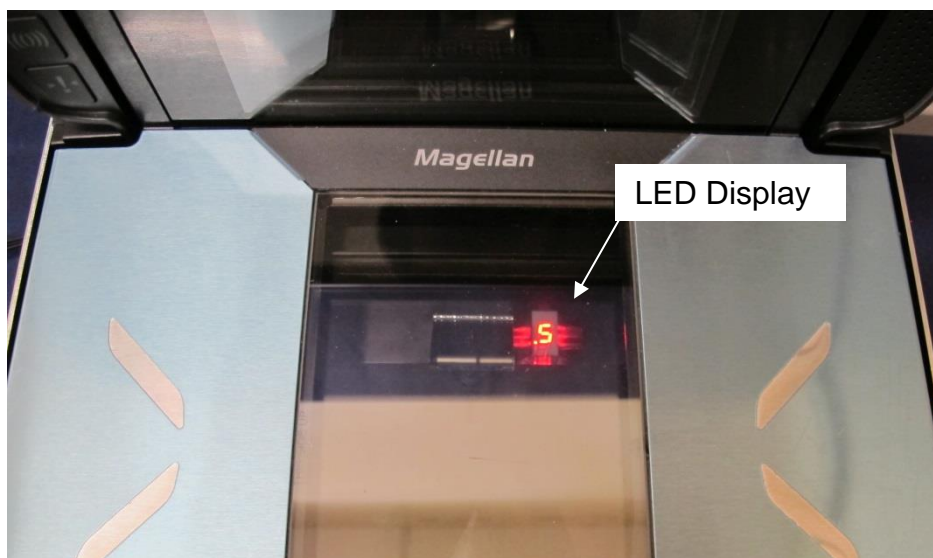
(b) Datalogic Model 960RD Display

FIGURE 6/4C/291 – 3



Typical Mechanical Sealing

FIGURE 6/4C/291 – 4



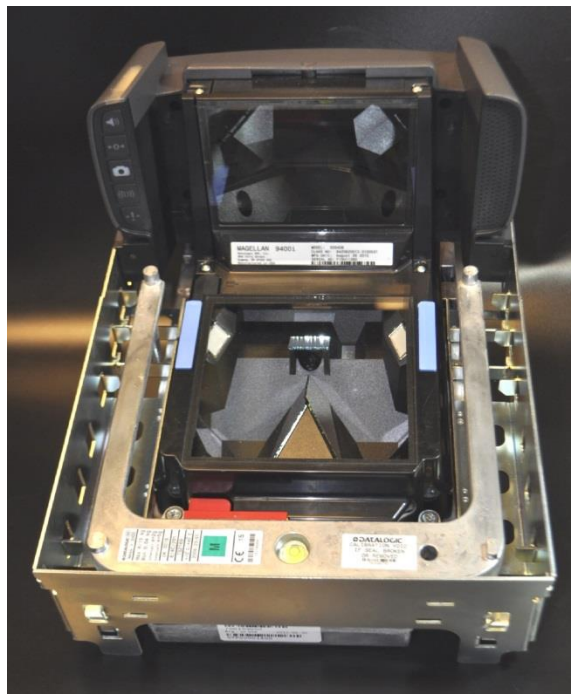
Seven Segment LED Display for Software Versions and Numbers



FIGURE 6/4C/291 – 5



(a) Datalogic Model Magellan 939404 Weighing Instrument (Variant 2)



(b) Datalogic Model Magellan 939404 Weighing Instrument  
With Load Receptor Plate Removed (Variant 2)

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