



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Certificate of Approval NMI 6/4C/252

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 8405 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 **1/03/22**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 & 2 approved – certificate issued	7/11/07
1	Variant 3 approved – certificate issued	11/03/09
2	Variant 4 approved – certificate issued	17/08/09
3	Variant 5 approved – certificate issued	13/05/10
4	Pattern & variants 1 to 5 reviewed & updated – approval amended (submittor's details) – certificate issued	31/08/12
5	Pattern & variants amended (submittor name) – certificate issued	31/01/17
6	Pattern & variants reviewed & updated – certificate issued	8/02/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/252' 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 Certificates No S1/0/A or 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*.



Mario Zamora

TECHNICAL SCHEDULE No 6/4C/252

1. Description of Pattern **approved on 7/11/07**

A Datalogic model Magellan 8405 (#) self-indicating weighing instrument (Figures 1 to 3) of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

(#) The instrument may also carry a marking of “Magellan 8400” (or 8300 in the case of variants) which refers to the series of the equipment – 8405 is the detailed model number.

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

Instruments are fitted with one or two model 8300RD displays mounted on a column (Figure 2). 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.

The platter size of the Magellan 8405 is 281 mm × 319 mm.

Instruments may be fitted with an extended (vertical) weighing platform attachment (‘produce guard’), 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 an FSP Group model FSP015-1AD203B (12 V DC, 1.25 A), a Pihong PSAA18U-120 (12 V DC, 1.5A), or a Pihong PSAA18U-120 (12 V DC, 1.5A ‘Level VI’); power supply; the submitter should be consulted regarding the acceptability of other alternatives.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of 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 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 laser scanner for reading bar codes.

1.4 Sealing Provision

Provision is made for the calibration adjustments to be sealed.

This is achieved by sealing of the cover over the calibration adjustment switch which is located beneath the load receptor (Figure 3). The cover may be sealed by means of a lead and wire (or similar) type seal through the holes provided (Figure 4).

1.5 Descriptive Markings and Notices

Instruments are marked with the following data, together in one location:

Manufacturer's mark, or name written in full	Datalogic USA, Inc.	#2
Name or mark of manufacturer's agent	Datalogic Australia Pty Ltd	#2
Indication of accuracy class	III	
Pattern approval number	NMI 6/4C/252	
Maximum capacity	Max kg	#1
Minimum capacity	Min kg	#1
Verification scale interval	e = kg	#1
Special temperature limits	+10°C to +40°C	
Serial number of the instrument	

#1 These markings are also shown near the display of the result if they are not already located there.

#2 'Datalogic USA' may also be shown as 'Datalogic ADC', 'Datalogic Scanning', or 'Datalogic'.

1.6 Verification Provision

Provision is made for the application of a verification mark.

2. Description of Variant 1 approved on 7/11/07

The model Magellan 8404, which is similar to the pattern except that it has a shorter, 281 mm x 268 mm, scale platter.

3. Description of Variant 2 approved on 7/11/07

The models Magellan 8305 and Magellan 8304, which are the same as the models 8405 and 8404, respectively, except that these models have different barcode scanning capabilities.

4. Description of Variant 3 approved on 11/03/09

Instruments may be fitted with one or two model 960RD displays (Figure 5) 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.

5. Description of Variant 4 approved on 17/08/09

The pattern (model Magellan 8405) or variants (models Magellan 8304, Magellan 8305 and Magellan 8404) now with an alternative load cell and main circuit board, and configured as either:

- (a) single interval weighing instruments of 15 kg maximum capacity with a verification scale interval of 0.005 kg; or
- (b) multi-interval weighing instruments with a verification scale interval (e_1) of 0.002 kg up to 6 kg and with a verification scale interval of 0.005 kg (e_2) from 6 kg up to the maximum capacity of 15 kg.

Instruments may be fitted with one or two displays as approved elsewhere in this approval, including models 960RD or 8300RD displays. 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 13/05/10

In addition to the description given in clause **1.1 Zero** for the pattern, when the zero button of the instrument is pressed, the instrument may detect a situation in which the instrument is below zero by a substantial amount (e.g. where an item on the platter has been zeroed by the initial zero setting device, and the item is then removed); when this situation is detected the instrument may then automatically remove and reapply power to the weighing instrument electronics, to allow an operation similar to the initial zero setting device to occur (the instrument will only zero if within the initial zero setting range).

Note: To initiate a full display check, power must be removed from the instrument.

TEST PROCEDURE No 6/4C/252

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

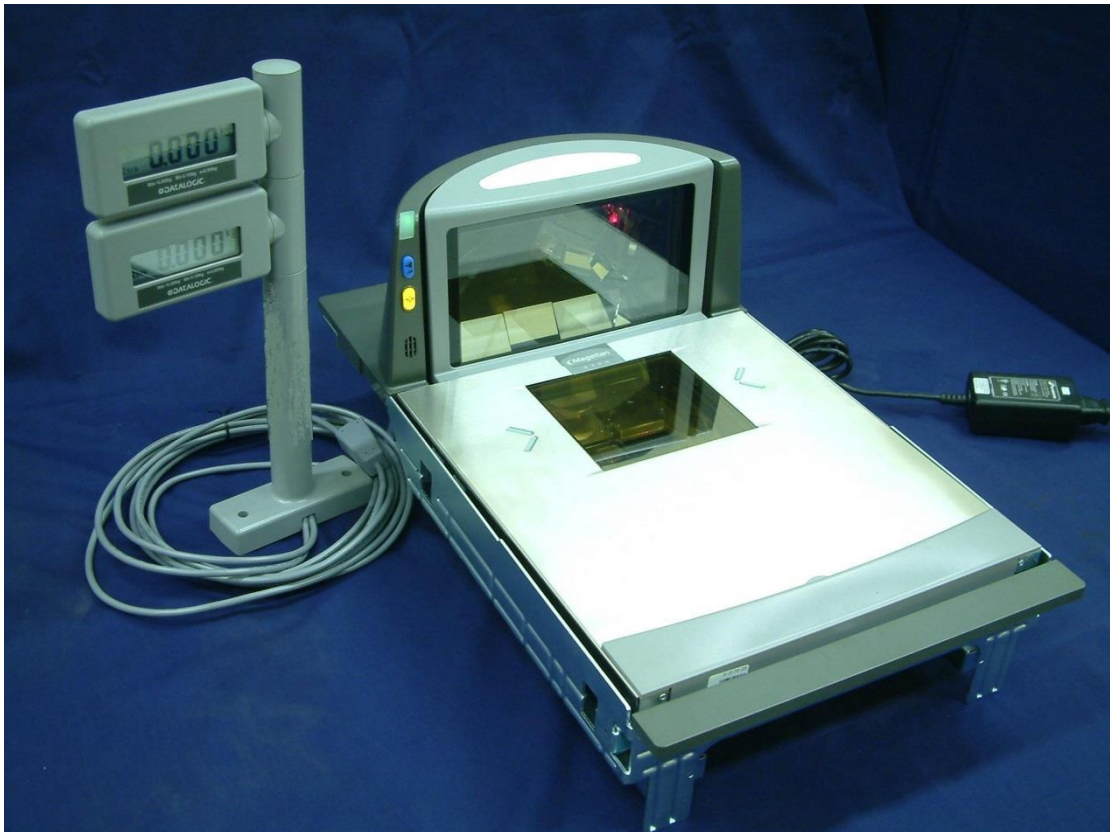
Maximum Permissible Errors

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/252 – 1



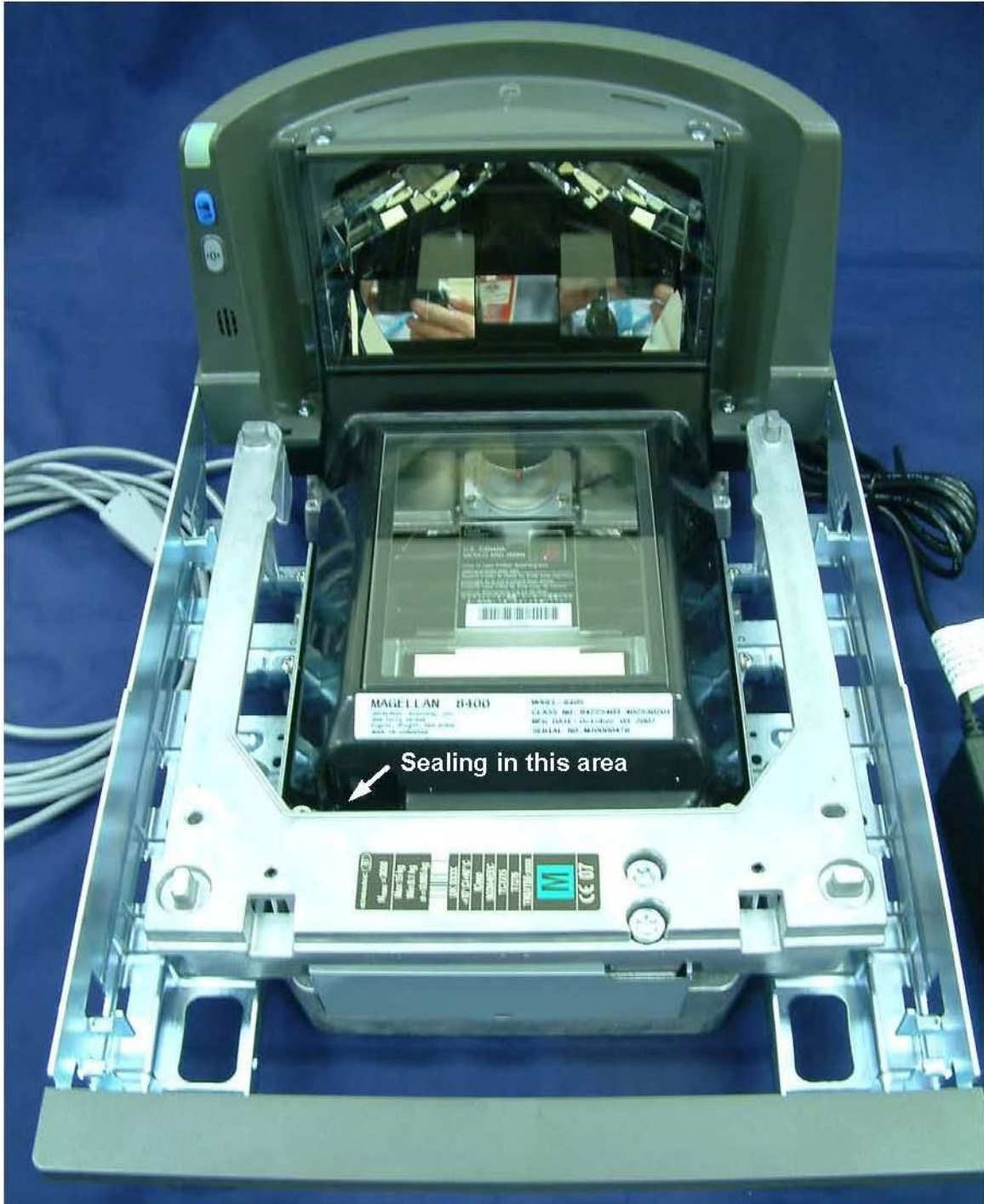
Datalogic Model Magellan 8405 Weighing Instrument

FIGURE 6/4C/252 – 2



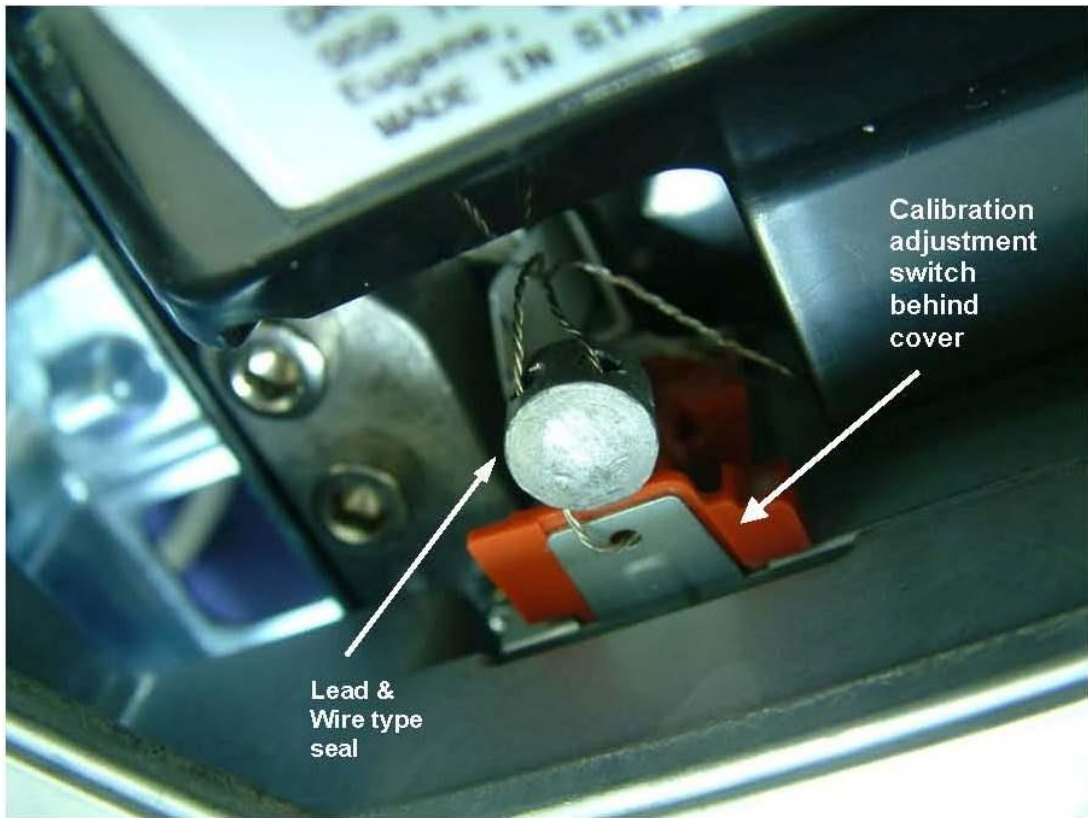
Two Model 8300RD Displays

FIGURE 6/4C/252 – 3



Datalogic Model Magellan 8405 Weighing Instrument
With Load Receptor Plate Removed

FIGURE 6/4C/252 – 4



Typical Mechanical Sealing

FIGURE 6/4C/252 – 5



Datalogic Model 960RD Display

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