Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

# Certificate of Approval

# NMI 6/4C/282

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 9806 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 OIML R 76, *Non-*automatic *weighing instruments, Part 1*, Edition 2006.

This approval becomes subject to review on 1/09/18, and then every 5 years thereafter.

DOCUMENT HISTORY

| Rev | Reason/Details | Date |
|---|---|---|
| 0 | Pattern & variants 1 to 3 approved – interim certificate issued | 30/08/13 |
| 1 | Pattern & variants 1 to 3 approved – certificate issued | 22/11/13 |
| 2 | Pattern amended (deleting note re. no zero indication) – variant 4 approved – certificate issued | 10/04/14 |
| 3 | Pattern & variants amended (submittor **name**) - 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/282' 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 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/282

## 1. Description of Pattern approved on 30/08/13

A Datalogic model Magellan 9806 class (III) multi-interval self-indicating non-automatic weighing instrument (Figures 1 to 3) 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.

The platter size of the Magellan 9806 is 280 mm × 440 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 an PHIHONG model PSAC30U-120(DL), 12 V DC, 2.5 A AC/DC power supply; the submittor 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 serial data interface, USB interface, Top Down Reader (TDR) interface, electronic Article Survellance (EAS) interface, host interfaces 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 software is designated C#Ξ#=0-F0d2-F1234 2-0-0 1-70-28 where # represent one or more incrementing symbols or alphanumeric characters, **F0d2** 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.

The scrolling software versions and numbers can be seen on the integrated seven segment LED display as shown in Figure 4 by pushing and holding the '!' button for five 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 | (III) | |
| Pattern approval mark for the instrument | NMI 6/4C/282 | |
| 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.

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 |

### 1.9 Verification Provision

Provision is made for the application of a verification mark.

## 2. Description of Variant 1 approved on 30/08/13

The model Magellan 9806 single interval instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg.

## 3. Description of Variant 2 approved on 30/08/13

The model Magellan 9804 which is similar to the pattern and variant 1 except that it has a shorter, 280 mm × 331 mm, scale platter.

## 4. Description of Variant 3 approved on 30/08/13

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.

## 5. Description of Variant 4 10/04/14

The pattern and variants with the software designated as C#Ξ#=0-F0dF-F1234 2-0-0 1-70-28 where # represent one or more incrementing symbols or alphanumeric characters, **F0dF** refers to the load cell checksum with reduced zero tracking correction rate, **2-0-0** refers to the identification of weighing embedded software and **1-70-28** refers to the identification of signal processing embedded software.

TEST PROCEDURE No 6/4C/282

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

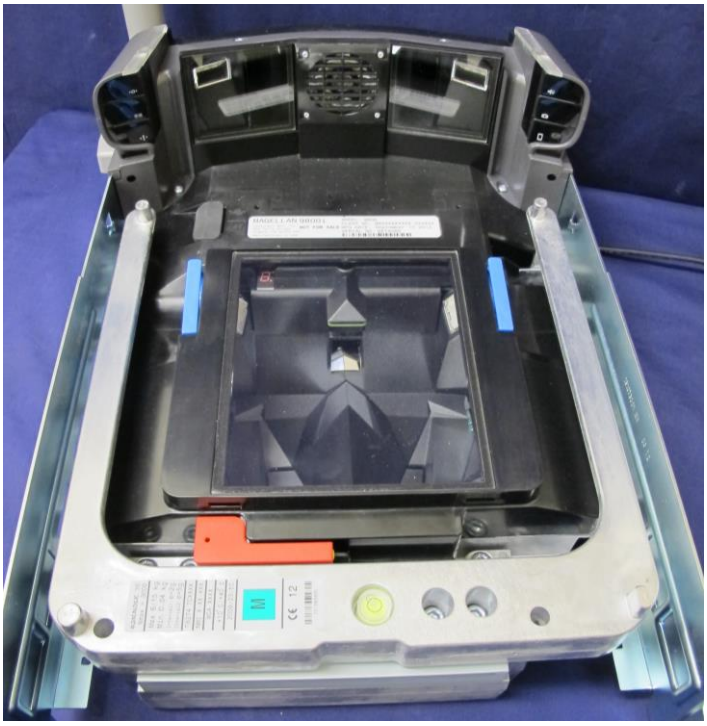
### Maximum Permissible Errors

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/282 – 1



Datalogic Model Magellan 9806 Weighing Instrument

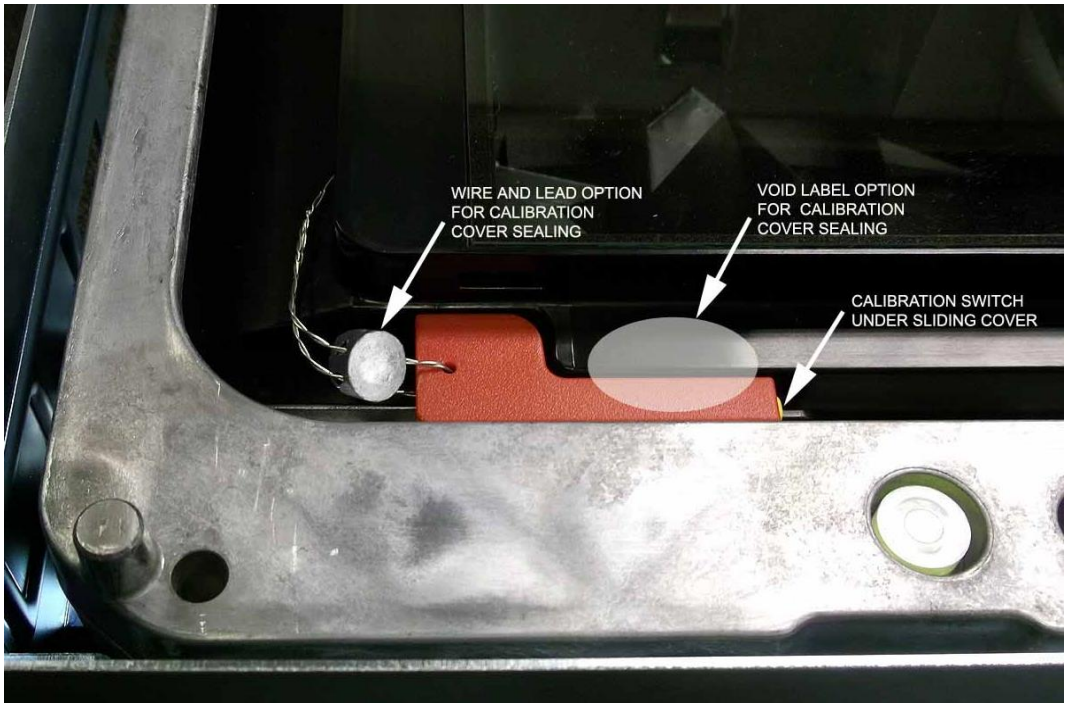
FIGURE 6/4C/282 – 2

(2a) Two Model 8300RD Displays


(2b) Datalogic Model 960RD Display

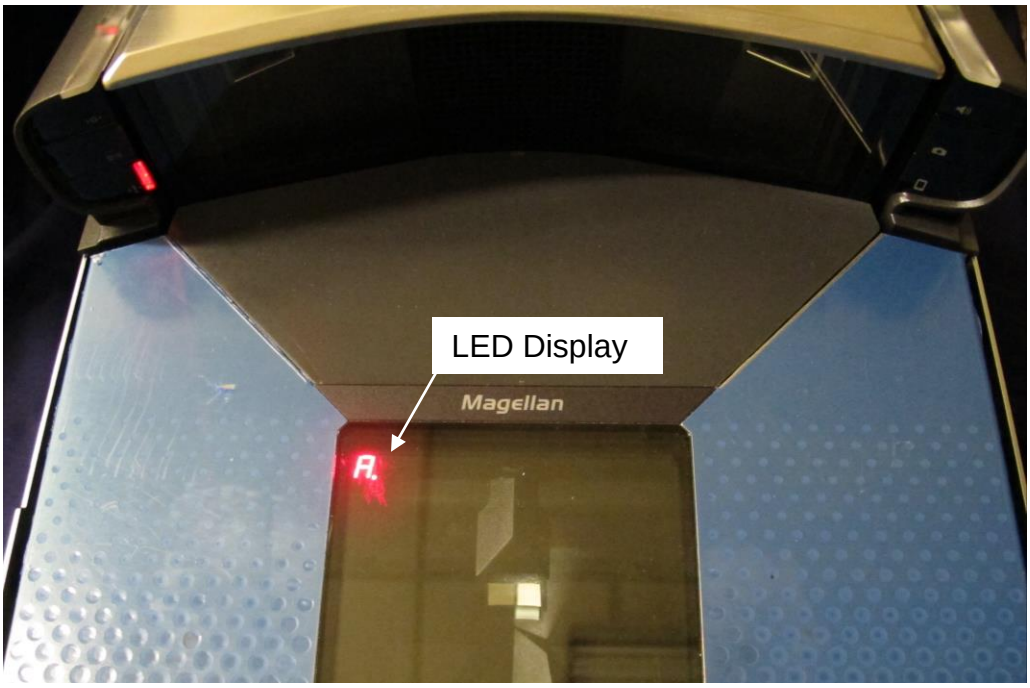
Column-mounted Displays

FIGURE 6/4C/282 – 3




Typical Mechanical Sealing

FIGURE 6/4C/282 – 4




Seven Segment LED Display for Software Versions and Numbers

~ End of Document ~