



Australian Government  
Department of Industry,  
Science and Resources

## National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

### Certificate of Approval

### NMI 6/4C/306

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.

Zebra Technologies Model MP7002 Weighing Instrument

submitted by Zebra Technologies Australia Pty Ltd  
Brandon Office Park  
Building 5, L1, 540 Springvale Road  
Glen Waverley, VIC 3150

**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 5 approved – certificate issued	13/09/17
1	Pattern & variants 1 & 3 amended (models correction) – certificate issued	15/12/20
2	Variants 6 to 7 approved – certificate issued	29/08/23

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4C/306' 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*.




**Darryl Hines**  
Manager  
Policy and Regulatory  
Services

TECHNICAL SCHEDULE No 6/4C/306

**1. Description of Pattern**

**approved on 13/09/17  
amended on 15/12/20**

A Zebra Technologies model MP7002 (#) class  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.

(#) The third digit of the model number (70X2) may be numerals, but it represents features which are not metrologically significant.

Instruments are fitted with one or two Zebra Technologies model MX 201 single display or one Zebra Technologies model MX 202 dual display 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.

Instruments may be fitted with a Flintec 20-MP7-M30-03 digital load cell of 30 kg maximum capacity. The long platter size is 279 mm x 397 mm.

Instruments may be fitted with an extended (vertical) weighing platform attachment, which is part of the 'live' weight receptor, as shown in Figure 1.

Instruments are approved for use over a temperature range of 0 °C to +40 °C and must be so marked.

Instruments use a Zebra Technologies model SAWA-56-41612A, 12 V DC, 4.16 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**

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.

The instrument has an automatic zero-setting device with a nominal range of not more than -2% 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 Verification Provision

Provision is made for the application of a verification mark.

## 1.6 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 RS-232, IBM 485 interface, USB interface, POS interface and Checkpoint or Sensormatic EAS interlock interface.

## 1.7 Sealing Provision

Access to allow changing of set-up parameters including calibration parameters is protected by a particular sequence and combination of keys.

The instrument is sealed by recording the audit trail counters on verification.

The instrument automatically increments a configuration and/or calibration value (audit trail number) each time the instrument is re-configured and/or calibrated.

The value(s) of these counters may be recorded on a destructible adhesive label attached to the instrument (e.g. as Cxxx, Pyyy).


Any subsequent alteration to the calibration or configuration will be evident as the recorded values and the current counter values will differ.

The instructions for accessing the calibration and configuration audit trail are as follows (starting from the normal weighing mode):

- Press and hold the 'ZERO' key for three seconds until the Cxxx and Pyyy are seen on the remote display.
- Release the 'ZERO' key to return to the normal weighing mode.

## 1.8 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Zebra Technologies Corp.
Indication of accuracy class	
Pattern approval mark for the instrument	NMI 6/4C/306
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	0 °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.

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 Software

The software is designated version 1.04F.

The instructions for accessing the software version are as follows (starting from the normal weighing mode):

- Press and hold the 'ZERO' key for three seconds until the software version is seen on the remote display.
- Release the 'ZERO' key to return to the normal weighing mode.

### 2. Description of Variant 1 **approved on 13/09/17** **amended on 15/12/20**

The model Zebra Technologies MP7001 (#) which is similar to the pattern but is a single interval instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg. Instruments may be fitted with a Flintec 20-MP7-M30-01 digital load cell of 30 kg maximum capacity.

(#) The third digit of the model number (70X1) may be numerals, but it represents features which are not metrologically significant.

### 3. Description of Variant 2 **approved on 13/09/17**

The pattern and variants having a shorter, 279 mm × 327 mm, scale platter for medium sized instruments (Figure 3). Medium sized instruments may be fitted with adjustable feet in which case the instrument is levelled and then installed in a fixed position.

### 4. Description of Variant 3 **approved on 13/09/17** **amended on 15/12/20**

The model Zebra Technologies MP7011 and MP7012 series which are similar to the pattern and variants except having a customer side scanner (Figure 4).

### 5. Description of Variant 4 **approved on 13/09/17**

Any model of the Zebra Technologies MP70X1 & MP70X2 series may be fitted with a Checkpoint or Sensormatic (EAS) deactivation antenna beneath the scale platter.

### 6. Description of Variant 5 **approved on 13/09/17**

Any model of the Zebra Technologies MP70X1 & MP70X2 series may be fitted with a Motorola model MX 201 or MX 202 display.

### 7. Description of Variant 6 **approved on 29/08/23**

The pattern or variants 1 to 4 may be fitted with a Shekel 20-MP7-M30-05 digital load cell (Figure 5) of 30 kg maximum capacity and an alternative mainboard.

### 8. Description of Variant 7 **approved on 29/08/23**

The pattern or variants 1 to 4 and 6 may be fitted with one or two Zebra Technologies model MX 203 single display (Figure 6a) or one Zebra Technologies model MX 204 dual display (Figure 6b).

## TEST PROCEDURE No 6/4C/306

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

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

### **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.

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.

FIGURE 6/4C/306 – 1



(a) Zebra Technologies Models MP70X1 & MP70X2 Series Weighing Instruments Long Version (Pattern)



(b) Zebra Technologies Models MP70X1 & MP70X2 Series With Load Receptor Plate Removed (Pattern)

FIGURE 6/4C/306 – 2



(a) Zebra Technologies Model MX 202 Dual Display



(b) Zebra Technologies Model MX 201 Single Display



FIGURE 6/4C/306 – 3



Zebra Technologies Models MP70X1 & MP70X2 Series Weighing Instruments  
Medium Version (Variant 2)

FIGURE 6/4C/306 – 4



Zebra Technologies Models MP7011 & MP7012 Series With Customer Side  
Scanner

FIGURE 6/4C/306 – 5



Zebra Technologies Models MP70X1 & MP70X2 Series Fitted With a Shekel 20-MP7-M30-05 Digital Load Cell With Load Receptor Plate Removed

FIGURE 6/4C/306 – 6



(a) Zebra Technologies Model MX 203 Single Display



(b) Zebra Technologies Model MX 204 Dual Display

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