



Australian Government

National Measurement  
Institute

Bradfield Road, West Lindfield NSW 2070

## Supplementary Certificate of Approval

### No S587

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.

MBL Model Merlin Point of Sale (POS) System

submitted by MBL Trading Ltd  
3-5 Vulcan Road  
Canning Vale WA 6155

**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 becomes subject to review on 1/10/17, and then every 5 years thereafter.

#### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	4/09/12
1	Pattern amended (validity date) – interim certificate issued	15/11/12
2	Pattern amended (validity date) – interim certificate issued	28/02/13
3	Pattern approved – certificate issued	18/07/13

#### CONDITIONS OF APPROVAL

##### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S587' and only by persons authorised by the submittor.

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.

### **Special**

Certain aspects of this instrument (in particular transaction record printing formats) are able to be configured by the user. Whilst NMI believes that acceptable formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation.

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

A handwritten signature in black ink, appearing to read 'Dr A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

## TECHNICAL SCHEDULE No S587

### 1. Description of Pattern

approved on 4/09/12

An MBL model Merlin point of sale (POS) system to provide certain additional facilities for transactions when interfaced to compatible (#) NMI-approved measuring instruments.

#### 1.1 Key Features

- The system provides point of sale arrangements for a Magellan model 8204 self-indicating non-automatic weighing instrument (approval NMI 6/4C/201) or other compatible (#) NMI-approved measuring instruments.
  - The system receives measurement data from the output interface of the approved measuring instrument and computes prices using a product look up (PLU) facility.
  - The system computes total price for multiple items including non-measured items and is approved for use for transactions direct to public.
  - Manually entered measurement data shall be indicated as such on a printed transaction record.
  - The system is able to apply a preset tare value up to the maximum capacity of the approved measuring instrument. Preset tare values are stored (e.g. within a PLU facility) where applicable.
  - The POS controllers may be connected in a network to share common PLU data, for totalisation, and to accumulate and retrieve management information.
- (#) 'Compatible' is defined to mean that no additions/changes to the hardware/software specified in this approval are required for satisfactory operation of the system.

#### 1.2 System Description

The MBL Model Merlin system (Figure 1) comprises:

##### (i) POS Controller

The MBL model Merlin POS controller is a PC-based device that operates a Microsoft Windows operating system running Merlin POS software with legally relevant software component mpLegal version 1.0.0.0. The software version is displayed by selecting the 'About' button from the 'Technician' function menu item.

Non-legally relevant components of the software are also shown at this menu item.

##### (ii) Electronic Indications

Indications shall satisfy the requirements of document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*.

An ELO model ET1515L TouchSystems touch sensitive computer monitor or equivalent (\*) is connected to the POS controller to provide an indication for the operator (Figure 2).

An LG Flatron model L1742TE computer monitor or equivalent (\*) is connected to the controller and provides an indication for the customer (Figure 3).

**(iii) Printing Devices**

Transaction records shall satisfy the requirements of document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*.

An Epson model TM-T88III printer or equivalent (\*) is connected to the controller to provide transaction record printing facility. A typical record is shown in Figure 4.

(\*) 'Equivalent' is defined to mean other proprietary equipment of the same or better specifications requiring no changes to the software specified in this approval for satisfactory operation of the system.

**(iv) Additional System Facilities**

In addition, the system may include other facilities including point of sale cash drawers, magnetic card and/or barcode reader and electronic funds transfer (EFT). The facilities shall not interact with the system in a way that would cause an incorrect indication of the measured quantity or price.

**1.3 Verification Provision**

Provision is made for the application of a verification mark.

**1.4 Descriptive Markings**

The POS controller is marked in a clear and permanent manner, in one location, with the following information:

Submittor's name or mark	.....
Serial number or other unique identifier	.....
Pattern approval number	NMI S587

## TEST PROCEDURE No S587

The POS system shall be tested in addition to any tests specified in the approval documentation for the instruments to which the POS system is connected, as appropriate

The POS system shall be tested in the normal operational mode of the instrument and device, not in 'training mode' or any other management mode.

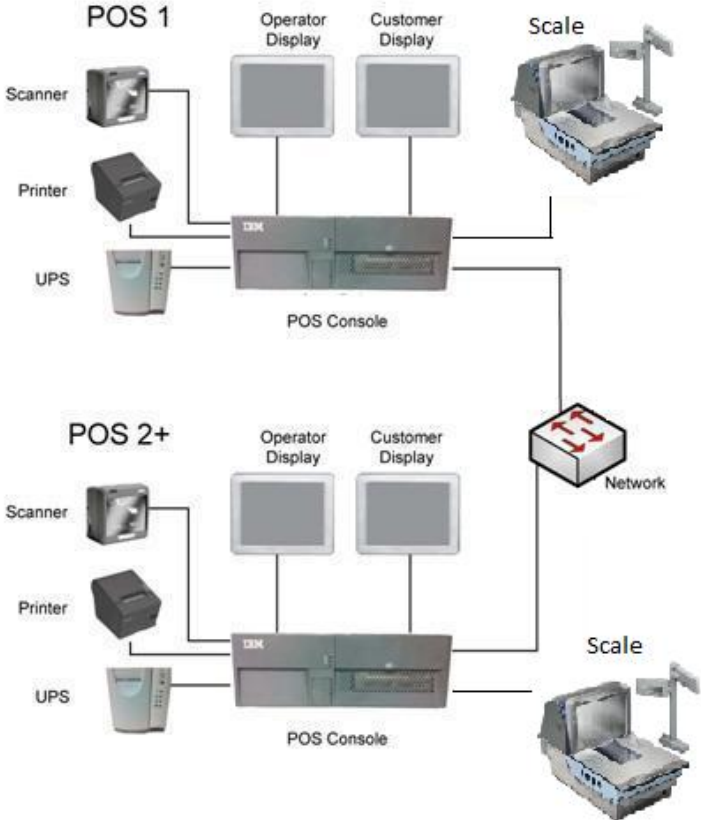
### **Maximum Permissible Error**

The maximum permissible error for price computation is  $\pm 0.5$  cent.

### TESTS

1. Check the software version number/s.
2. Check that the POS system faithfully reproduces the measurement data in the same units and scale interval as the connected approved measuring instrument, e.g. test by using a PLU without a stored tare.
3. Check that the system performs correct price computation, and computes and indicates a correct unrounded subtotal. For cash payment methods, check that any rounding calculation is correct.
4. Perform a measurement with a preset tare applied and confirm that the POS system correctly calculates and indicates a net measurement result.
5. Manually enter some pre-determined measurement data and ensure that the printed transaction record clearly indicates the transaction as such.
6. For network systems check to ensure that the measurement data printed on the transaction record is correctly reproduced.
7. Ensure that electronic indications and printed information are in accordance with document NMI M7.

FIGURE S587 – 1



Typical MBL Model Merlin Point of Sale (POS) System

FIGURE S587 – 2



Typical Operator Display

FIGURE S587 – 3



Typical Customer Display

FIGURE S587 – 4

Sale ID: 506901	Station:1
	\$
APPLES GOLDEN DELICIOUS KG	1.37 E
0.229kg NET @ \$5.99/kg	
APPLES BAG GRANNY S KG	1.06 E
0.235kg @ \$4.49/kg	
APPLES BAG GRANNY S KG	7.48 E
MAN 1.666kg @ \$4.49/kg	
BANANAS LARGE QLD KG	3.29 E
MAN 0.660kg NET @ \$4.99/kg	
Normal Price \$6.99/kg	
GRAPES FLAME S/LESS KG	1.43 E
0.205kg @ \$6.99/kg	
Normal Price \$16.99/kg	
<b>Subtotal</b>	<b>\$14.63</b>
Rounding	0.02
<b>TOTAL AMOUNT TO PAY</b>	<b>\$14.65</b>
Cash	-14.65
Total GST	\$0.00
Total Savings on normal prices	\$3.37
Total Items	5
'MAN' indicates Manually Entered Weight	

A Typical Receipt