Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S632

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.

Precise Business Solutions Model PBSA Point of Sale (POS) System

submitted by Precise Business Solutions Australia
Suite 3B, 300B Gillies Street North
Wendouree VIC 3355

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 M7, *Pattern Approval Specifications for Point of Sale Systems*, dated June 2012.

This approval becomes subject to review on 1/06/19, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	24/05/13
1	Pattern amended (validity date) – interim certificate issued	6/12/13
2	Pattern amended (validity date) – interim certificate issued	13/06/14
3	Pattern amended (validity date) – interim certificate issued	21/11/14
4	Pattern approved – interim certificate issued	6/03/15
5	Pattern approved – certificate issued	27/05/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S632' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI PS632' may be re-marked 'NMI S632' but 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.

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*.

Dr A Rawlinson

TECHNICAL SCHEDULE No S632

1. Description of Pattern provisionally approved on 24/05/13 approved on 6/03/15

A Precise Business Solutions Australia model PBSA POS system to provide certain additional facilities for transactions when interfaced to compatible (#) NMI-approved measuring instruments granted with reference to document NMI M7.

1.1 Key Features

- The system provides point of sale arrangements for a CAS model ER PLUS self-indicating non-automatic weighing instrument (approval NMI 6/4D/345) 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 the 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 may be keyboard-entered or stored (e.g. within a PLU facility).
- 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 model PBSA point of sale (POS) system (Figure 1) comprises:

(i) POS Controller

The Posiflex model JIVA POS controller comprises a model TP 8300 touch sensitive terminal or equivalent (*) PC-based device that operates a Microsoft Windows-based operating system.

The 'Scale Integration' software which is the software relates to trade measurement is built within the 'PBSA POS Management System' software. The POS system uses version Scale Integration:1.xx software. The version number can be found at the 'about PBSA POS management system' screen which is in the 'Help' menu of PBSA POS management system software (Figure 2).

(ii) Electronic Indications

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

The Posiflex model Jiva controller with an integral touch sensitive computer monitor or equivalent (*) provides an indication for the operator (Figure 3)

(*) '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.

A Posiflex model LM8045 monitor or equivalent (*) is connected to the controller and provides an indication for the customer (Figure 4).

A BIXOLON model BCD-1000 2-line display or equivalent (*) may be connected to the controller as an alternate indication for the customer.

(iii) Printing Devices

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

A CITIZEN model TZ30-M01 printer or equivalent (*) is connected to provide a transaction record printing facility. A typical record is shown in Figure 5a.

Labels shall satisfy the requirements of document NMI M7.

A BIXOLON model SRP-77011 thermal label printer or equivalent (*) is connected to provide a label printing facility. A typical label is shown in Figure 5b.

(*) '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), etc. 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	PBSA POS
Serial number or other unique identifier	……..
Pattern approval number	NMI S632

TEST PROCEDURE No S632

The POS system shall be tested in addition to any tests specified in the approval documentation for the measuring instrument/s 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 ±0.5 cent.

TESTS

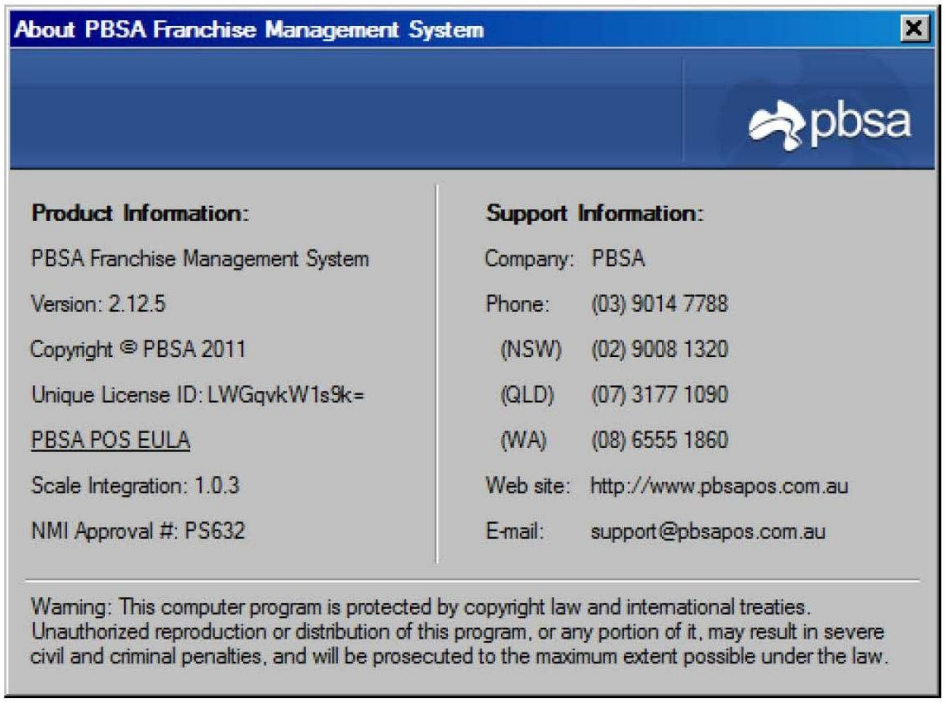
1. Check the software version number/s.
2. Check that the POS system faithfully reproduces the measurement data in the same units and scale interval as the connected approved measuring instrument, e.g. test by using a PLU without a stored tare.
3. Check that the system performs correct price computation, 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 S632 – 1

Note: ⟶ Data flow direction as shown by arrow pointer.

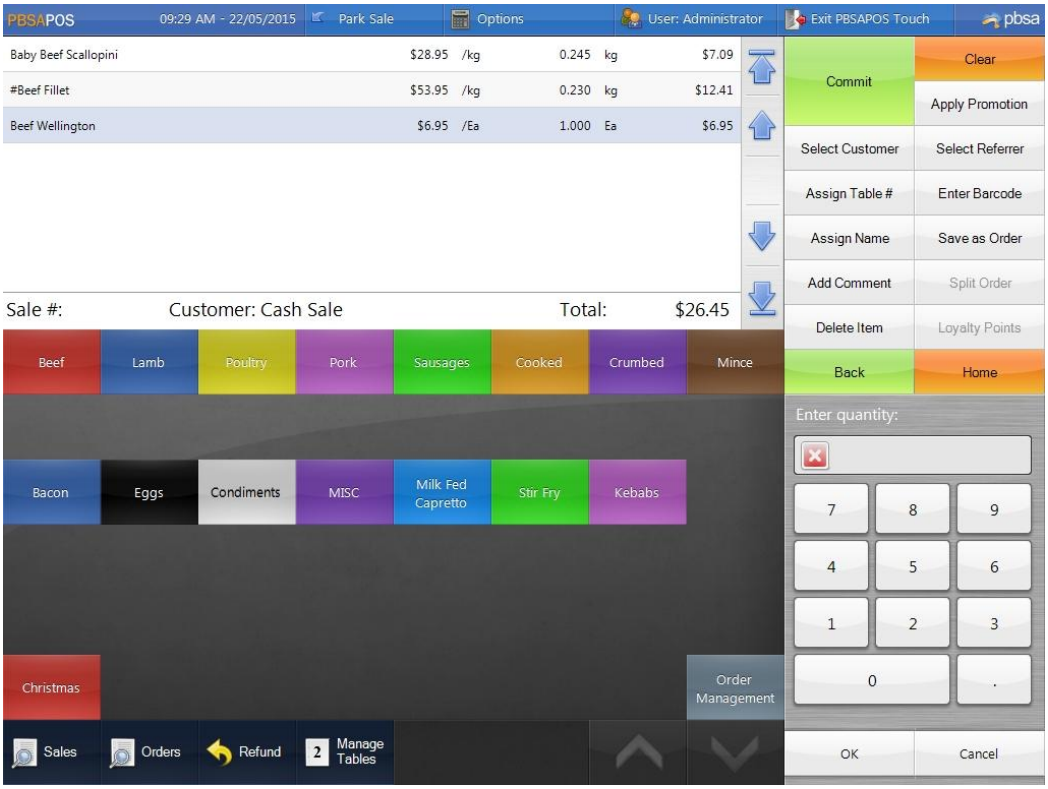
PBSA POS Model Scale Integration Point of Sale (POS) System

FIGURE S632 – 2



Showing Display of Software Version Number

FIGURE S632 – 3



Typical Operator Display

FIGURE S632 – 4

Typical Customer Display

FIGURE S632 – 5

Test Company
14 Test Rd Sydney
ABN: 11 222 333 444
Ph: 7777 8888

TAX INVOICE

Invoice #: 00000049
Date: 16 Oct 2014, 04:14PM
Assistant: Administrator
Customer: Cash Sale

	$
*Eye Fillet	
1.000kg @ $9.99/kg	9.99
*Eye Fillet	
14.995kg @ $9.99/kg	149.80
*Fuji Apples	
4.994kg Net @ $3.00/kg	14.98
*Fuji Apples	
#3.246kg Net @ $3.00/kg	9.74
*Test Product	
Quantity 1.000 @ $1.00 Ea	1.00
*Test Product	
Quantity 6.000 @ $1.00 Ea	6.00
Sub Total:	$191.51
GST:	17.41
Rounding:	-0.01
Sales Total Inc Tax:	**$191.50**
Amount Applied:	191.50

* = tax in price
# = weight manually entered

Payments:

Cash	200.00

Refund Payments:

Change / cash out:	8.50

(a) A Typical Receipt

(b) A Typical Label

~ End of Document ~