



Australian Government  
Department of Industry,  
Innovation and Science

## National Measurement Institute

# Supplementary Certificate of Approval NMI S646

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.

Aclas Model ArmPOS Point of Sale (POS) System

submitted by   Aclas Pty Ltd  
                    Unit 4, 69 Montpelier Road  
                    Bowen Hills   QLD   4006

**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/\*/22, and then every 5 years thereafter.

### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	4/09/13
1	Pattern amended (validity date) – interim certificate issued	6/03/14
2	Pattern approved – certificate issued	31/05/17

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S646' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI PS646' may be re-marked 'NMI S646' 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 S646

### 1. Description of Pattern **provisionally approved on 4/09/13** **approved on 31/05/17**

An Aclas model ArmPOS 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 PD-II self-indicating non-automatic weighing instrument (approval NMI 6/4C/237) 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 POS controllers may be connected in a network to share common PLU data, for totalisation, and to accumulate and retrieve management information.

Note: The POS system is NOT able to apply a preset tare value.

(#) '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 Aclas model ArmPOS point of sale (POS) system comprises:

##### (i) POS Controller

The POS controller comprises a Aclas model APOS or equivalent (\*) PC-based device that operates a Microsoft Windows-based operating system running ArmPOS version 2.xx software). The software version number is displayed on the login page of the software.

##### (ii) Electronic Indications

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

The Aclas model APOS POS controller has an integral touch sensitive display to provide an indication for the operator.

An Aclas model OT10SA display or equivalent (\*) is connected to the controller as an indication for the customer.

Information additional to that required by document NMI M7, including totalisation details and product images, may also be indicated.

**(iii) Printing Devices**

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

An Aclas model P-PP6250 printer or equivalent (\*) is connected to the controller to provide transaction record printing facility.

(\*) '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	.....
Serial number or other unique identifier	.....
Pattern approval number	NMI S646

## TEST PROCEDURE No S646

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  $\pm 0.5$  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.
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. Manually enter some pre-determined measurement data and ensure that the printed transaction record clearly indicates the transaction as such
5. For network systems check to ensure that the measurement data printed on the transaction record is correctly reproduced.
6. Ensure that electronic indications and printed information are in accordance with document NMI M7.

FIGURE S646 – 1



Aclas Model ArmPOS Point of Sale (POS) System

FIGURE S646 – 2

Single		Hold	0	BillNo	E00117051900003	POS	E001	Clerk	Admin	19/05/2017 13:44:40
<b>S A L E</b>	Amount	\$12.18	GST	\$3.46	<b>\$2.24/kg*0.325kg</b>					
	Discount	\$0.08	Total Qty	3.30	<b>PUMPKIN</b>					
	<b>Total</b>		<b>\$12.10</b>		Customer:					
Barcode	Description	Qty	Price	Discount%	Net Price	Amount				
1 6939454500078	ENOKI MUSHROOMS 200G	1.000	\$3.99	0.00	\$3.99	\$3.99				
2 1113	BLUEBERRY	0.325kg	\$3.99/kg	0.00	\$3.99/kg	\$1.30				
3 1113	BLUEBERRY	1.320kg	\$3.99/kg	0.00	\$3.99/kg	\$5.27				
4 2260	PUMPKIN	0.325kg	\$2.49/kg	0.00	\$2.49/kg	\$0.81				
5 2260	PUMPKIN	0.325kg	\$2.49/kg	10.00	\$2.24/kg	\$0.73				

Select from panel
Delete Row
Up
Down
Qty
Weight
+
-
Product Search F1

Price F3
Item Discount% F4
Invoice Discount% F5
Dollar Discount F6
Cash In/Dut ^I
Member Card F7
Hold/Recall F8
Sales Refund ^U
Payment +

Open Drawer F9
Change User ID ^L
Account Payment ^Q
Data Refresh ^R
Functions
Price Inquiry ^O
Print Receipt F11
Account F12
All Void Esc
Edit ^X

Typical operator display.

FIGURE S646 – 3

**WELCOME TO Aclas Supermarket  
THANK YOU FOR VISITING!**

Description	Qty	Price	Disc%	Net Price	Amt
1 ENOKI MUSHROOMS 200G	1.000	\$3.99	0.00	\$3.99	\$3.99
2 BLUEBERRY	0.325kg	\$3.99/kg	0.00	\$3.99/kg	\$1.30
3 BLUEBERRY	1.320kg	\$3.99/kg	0.00	\$3.99/kg	\$5.27
4 PUMPKIN	0.325kg	\$2.49/kg	0.00	\$2.49/kg	\$0.81
▶ 5 PUMPKIN	0.325kg	\$2.49/kg	10.00	\$2.24/kg	\$0.73

**Subtotal: \$12.18**

**Discount: \$0.08**

**Total: \$12.10**

**PUMPKIN**

**\$0.73**

**0.325kg\* \$2.24/kg**

Aclas Pty Ltd Web: www.aclas.com.au

Typical customer display

FIGURE S646 – 4



A Typical Receipt

~ End of Document ~