



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Interim Supplementary Certificate of Approval NMI S642

VALID FOR VERIFICATION PURPOSES UNTIL 26 AUGUST 2015

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.

Marketstall Model EDGEPoS Point of Sale (POS) Control System for Fuel Dispensers for Motor Vehicles

submitted by Marketstall Australia PTY Ltd
Unit 3, 134-136 Freight Drive
Somerton VIC 3062

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.

The approval of the pattern has been granted with reference to document NMI R 117 Measuring Systems for Liquids Other than Water, dated June 2011.

The approval of variant 1 has been granted with reference to document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*, dated June 2012.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	14/06/13
1	Pattern & variant 1 approved – interim certificate issued	26/02/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S642' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI PS642' may be re-marked 'NMI S642' but 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.

1. Description of Pattern **provisionally approved on 14/06/13**
approved 26/02/15

A Marketstall model EDGEPoS point of sale control system to provide an attended self-service facility for compatible (#) approved fuel dispensers for motor vehicles. The fuel dispensers are controlled by the EDGEPoS point of sale system through the Integration Technologies Enabler 3 PCI (as described in approval NMI S518).

1.1 Key Features

- The system is approved for environmental class A, a climate-controlled environment between 5°C and 30°C.
- The system can provide a self-serve arrangement for compatible (#) approved fuel dispensers.
- The system allows post-payment or pre-payment deliveries; in the latter case the fuel dispenser must incorporate a pre-set device.
- The system allows up to two transactions per fuel dispenser, i.e. current sale on the fuel dispenser and a stored transaction.
- Additional POS consoles may be interfaced for multi-attended self-serve operation.
- The nominal supply voltage is 240 V AC.

1.2 System Description

The Marketstall model EDGEPoS point of sale (POS) system comprises:

(i) Point of Sale (POS) Console

The point of sale console comprises a Partner model PT-6215 or equivalent (*) PC-based device using a Microsoft Windows operating system running EDGEPoS version 3.x.xx software. The software version number is displayed at the top of the operator screen at all times.

(ii) Electronic Indications

A Partner model PT-6215 touch sensitive computer monitor or equivalent (*) is connected to the POS controller to provide an indication for the operator.

A Partner model CD-7220 computer monitor or equivalent (*) is connected to the controller and provides an indication for the customer.

(#) '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.

(*) '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.

(iii) Printing Devices

An Epson model TM88 receipt printer or equivalent (*) is connected to the POS console. This also acts as the audit trail printer. The printer automatically prints fuel delivery details when a measurement result is stored in memory and a second delivery authorised. In a configuration with multiple POS consoles, the audit trail printer is connected to each individual console.

(iv) Server Computer

The server computer comprises a Hewlett Packard model 6300 computer or equivalent (*) with an Integration Technologies model Enabler 3 PCI forecourt flowmeter controller as described in approval NMI S518. The server computer operates as a database server for the POS consoles.

(v) Additional System Facilities

In addition, the model EDGEPoS point of sale control system may include point of sale facilities including cash drawers, a magnetic card or barcode reader and EFT facility. The facilities shall not interact with the console in a way that would cause an incorrect indication of the measured volume or price.

1.3 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 S642

Note: Instruments purporting to comply with this approval and currently marked 'NMI PS642' may be re-marked 'NMI S642' but only by persons authorised by the submittor.

2. Description of Variant 1

approved 26/02/15

The pattern now 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 Mettler Toledo model VIVA self-indicating non-automatic weighing instrument (approval NMI 6/4C/239) 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.
- (#) '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.
- (*) '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.

- 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.

1.2 System Description

The Marketstall model EDGEPoS point of sale (POS) system comprises:

(i) POS Controller

The Marketstall model EDGEPoS POS controller comprises a Partner model PT-6215 or equivalent (*) PC-based device that operates a Microsoft Windows-based operating system running EDGEPoS version 3.x.xx software (Submitter to confirm version number). The software version number is displayed at the top of the operator screen at all times.

(ii) Electronic Indications

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

The Partner model PT-6215 POS controller has an integral touch sensitive display to provide an indication for the operator.

A Bixolon model BCD-1000 2 line display or equivalent (*) is connected to the controller and provides 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 Epson model TM88 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.

TEST PROCEDURE

A. For the pattern (fuel POS systems)

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instruments to which the pattern is connected, as appropriate, and in accordance with the national Instrument Test Procedures.

Points 2-6 are required at commissioning, thereafter they may be conducted at the discretion of the inspecting officer.

1. Check the EDGEPoS software version number.
2. Check that the unit price change for the grade of fuel is implemented to the allocated fuel dispensers when they are available for authorisation.

3. Check that the system identifies, displays and prints the correct data for the corresponding number allocated to the fuel dispenser.
 4. Authorise a delivery and check that the delivery details on the fuel dispenser agree with the receipt obtained.
 5. Authorise a stored delivery and check that the delivery details of the first delivery to be stored in memory is printed on the audit printer.
 6. Remove paper from the audit printer and check that when the printer is unavailable, the warning message is displayed on the POS console. Ensure that the ability to authorise a stored delivery is not possible.
- B. For variant 1 (weighing POS systems)

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. 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.

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

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