



Australian Government
Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

**Supplementary Certificate of Approval
NMI S794**

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.

OTR Model MPOS Point of Sale (POS) Control System for Fuel Dispensers for Motor Vehicles

submitted by On The Run Pty Ltd
270 The Parade
Kensington SA 5068

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 117, *Measuring Systems for Liquids Other than Water*, dated June 2011.

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 and Variant 1 provisionally approved – interim certificate issued	18/05/20
1	Pattern and Variant 1 amended (validity date) – interim certificate issued	13/04/21
2	Pattern amended (validity date) – interim certificate issued	20/01/22
3	Pattern amended (validity date) – interim certificate issued	07/02/23
4	Pattern and Variant 1 approved – certificate issued	26/02/24
5	Pattern Amended (model description) Variant 2 approved – certificate issued	05/08/24

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S794' and only by persons authorised by the submitter.

Instruments purporting to comply with this approval and currently marked 'NMI PS794' may be re-marked 'NMI S794' but only by persons authorised by the submitter.

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*.



Darryl Hines
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S794

1. Description of Pattern **provisionally approved 18/05/20**
approved 26/02/24
amended 05/08/24

A OTR model MPOS point of sale control system (Figure 1) to provide an attended self-service facility for compatible (#) NMI-approved fuel dispensers for motor vehicles. The fuel dispensers are controlled by the MPOS point of sale system through the Integration Technologies Enabler flowmeter controller (as described in approval NMI S518).

Note: The pattern is formerly known as Peregrine Corporation Model MPOS Point of Sale control system.

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 (#) NMI-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.
- The system may facilitate mixed-mode operation for unattended self-service mode. A control system that is approved for unattended self-service operation must be interfaced to the MPOS point of sale control system for operation in this mode.
- 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 OTR model MPOS point of sale (POS) system comprises:

(i) Point of Sale (POS) Console

The point of sale console comprises a Smart screen AiO 15.6" or equivalent (*) PC-based device using a Microsoft Windows operating system running Store Commerce for Windows By Microsoft software version 9.x.x.x. The software version number is displayed by selecting the cog wheel on the top right hand corner of the sales screen, the version number is then displayed on the left hand side of the screen under the about heading.

(ii) Electronic Indications

The Smart screen AiO 15.6" controller has an integral touch sensitive display to provide an indication for the operator (Figure 2) and another integral display to provide an indication for the customer (Figure 3).

- (#) '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) Kitchen Display System

The MPOS point of sale system comprises a Kitchen Display System (KDS) to provide an alternative primary indication allow the recall of the stored transactions under power failure condition.

A Philips model 243V7QJAB LCD monitor or equivalent (*) is connected to the KDS and communicates with the MPOS and Server Computer to display stored transaction details as shown in Figure 4.

(iv) Uninterruptible Power Supply (UPS)

A PowerShield Defender 1200 UPS or equivalent (*) is included to provide operation under power failure condition. The UPS is interfaced to the KDS.

(v) Printing Devices

An Epson model TM88 receipt printer or equivalent (*) is connected to the MPOS console. A typical record is shown in Figure 5.

(vi) Server Computer

The server computer comprises a Lenovo model ThinkSystem SE350 computer or equivalent (*) with an Integration Technologies model Enabler forecourt flowmeter controller as described in approval NMI S518. The server computer operates as a database server for the POS consoles.

(vii) Additional System Facilities

In addition, the model MPOS 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 Checking Facilities

(i) Kitchen Display System

The KDS display configured to monitor deliveries authorised to be stored in memory.

If an error is detected with the display connected to the KDS, a message is displayed on the operators display and the ability to authorise a stored transaction will be prevented until the detected error condition is resolved.

(ii) Uninterruptible power supply

The KDS monitors the condition of the UPS and if an error or power loss is detected, the system will prevent the ability to authorise a stored transaction.

1.4 Descriptive Markings

The MPOS console 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 S794

- (*) 'Equivalent' is defined to mean other proprietary equipment of the same or better specifications requiring no changes to software for satisfactory operation of the complete system.

1.5 Verification Provision

Provision is made for the application of a verification mark.

2. Description of Variant 1 **provisionally approved on 18/05/20** **approved on 26/02/24**

With the Server Computer including the Integration Technologies Enabler Controller of the pattern described in **1.2 System Description** replaced a Postec Model PCC4 forecourt controller or compatible controller variations as described in approval NMI S398.

3. Description of Variant 2 **approved on 05/08/24**

With the Integration Technologies Enabler Controller of the pattern described in **1.2 System Description** replaced by a DOMs Model PSS5000 fuel controller or compatible controller variations, as described in approval NMI S748.

3.1 Checking Facilities

The variation replaces may replace the Kitchen Display System described in **1.3 Checking Facilities** with the following alternative checking facilities provided by the DOMs Model PSS5000 fuel controller or compatible controller variations.

(i) Customer display

If an error is detected with the Customer displays connected to the Point of Sale Consoles (POS), the ability to authorise a stored transaction will be prevented until the detected error condition is resolved and a message is displayed on the operators display if attempting to authorise a stored transaction.

(ii) Uninterruptible power supply

The system monitors the condition of the UPS and if an error or power loss is detected, the system will prevent the ability to authorise a stored transaction.

Note: A PIPI display is not mandatory as described in certificate NMI S748 clause **1.3 Checking Facilities – (ii) Customer Display (PIPI)**.

TEST PROCEDURE No S794

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 2-5 are required at commissioning, thereafter they may be conducted at the discretion of the inspecting officer.

1. Check the POS Store Commerce for Windows By Microsoft 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.

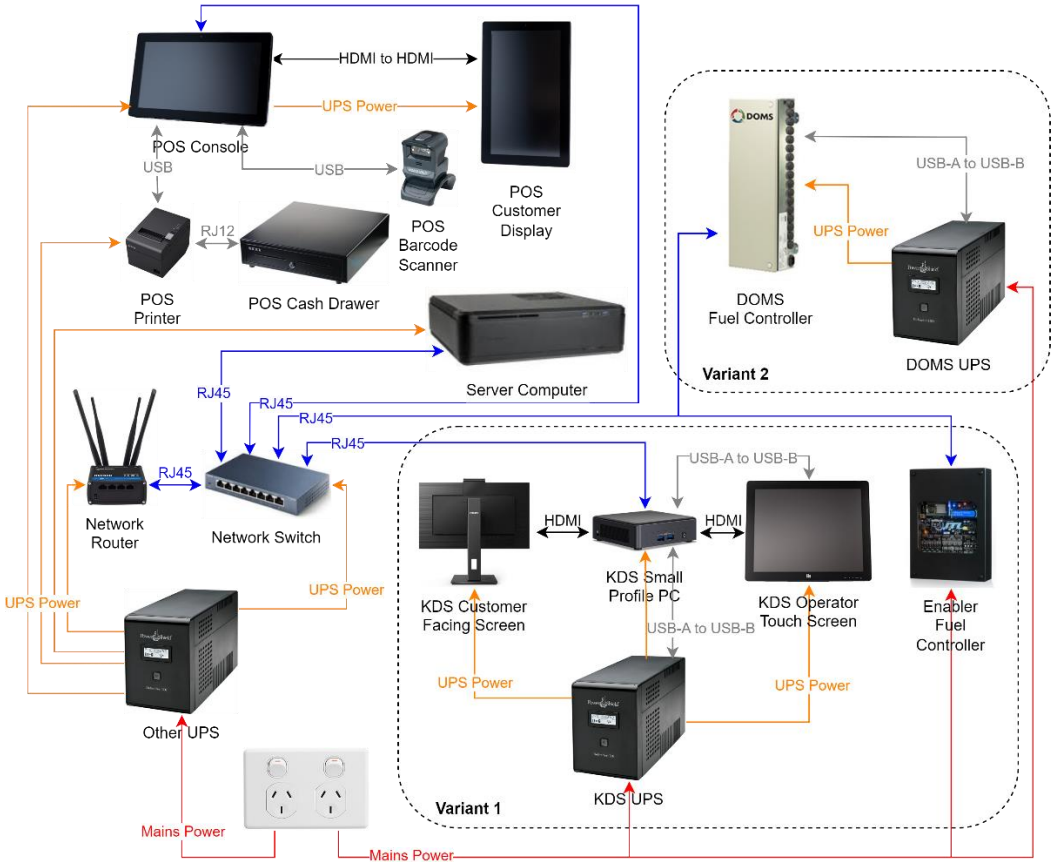
For systems equipped with the Kitchen Display System

5. Authorise a stored delivery and check that the delivery details of the first delivery to be stored in memory is displayed on the KDS monitor.

For systems of Variant 2 with the alternative checking facilities

6. Check that when the customer displays are disconnected from the Point of Sale consoles, the ability to authorise a stored delivery is not possible. If the Operator attempts to authorise a stored transaction a warning message is displayed on the operators' screen.

FIGURE S794 – 1



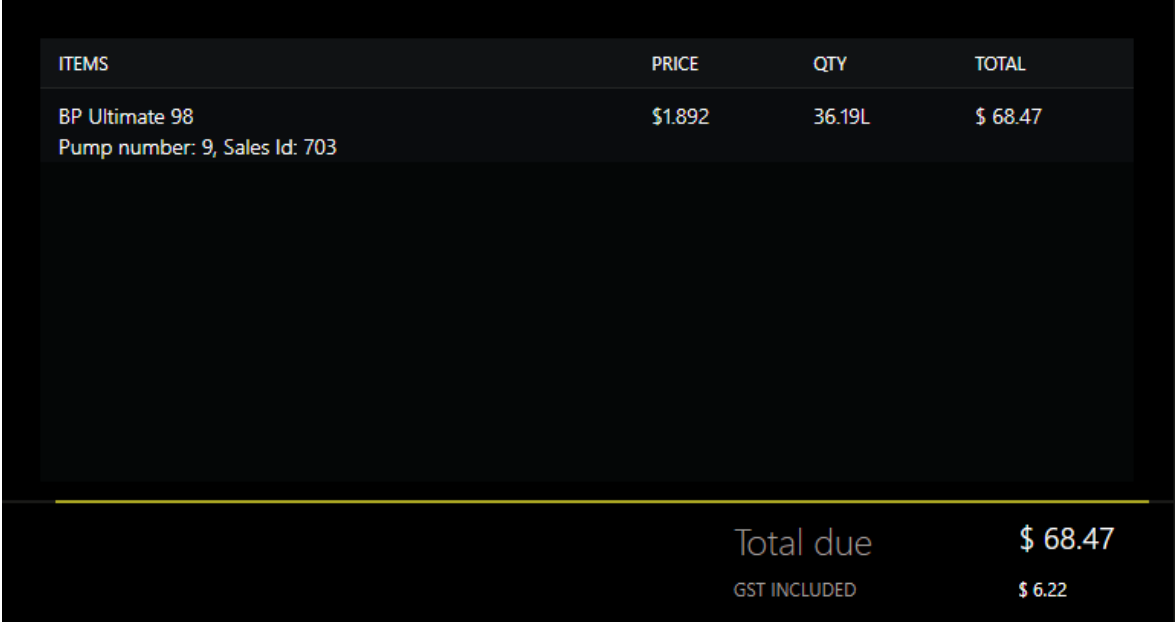
Point of Sale (POS) System

FIGURE S794 – 2



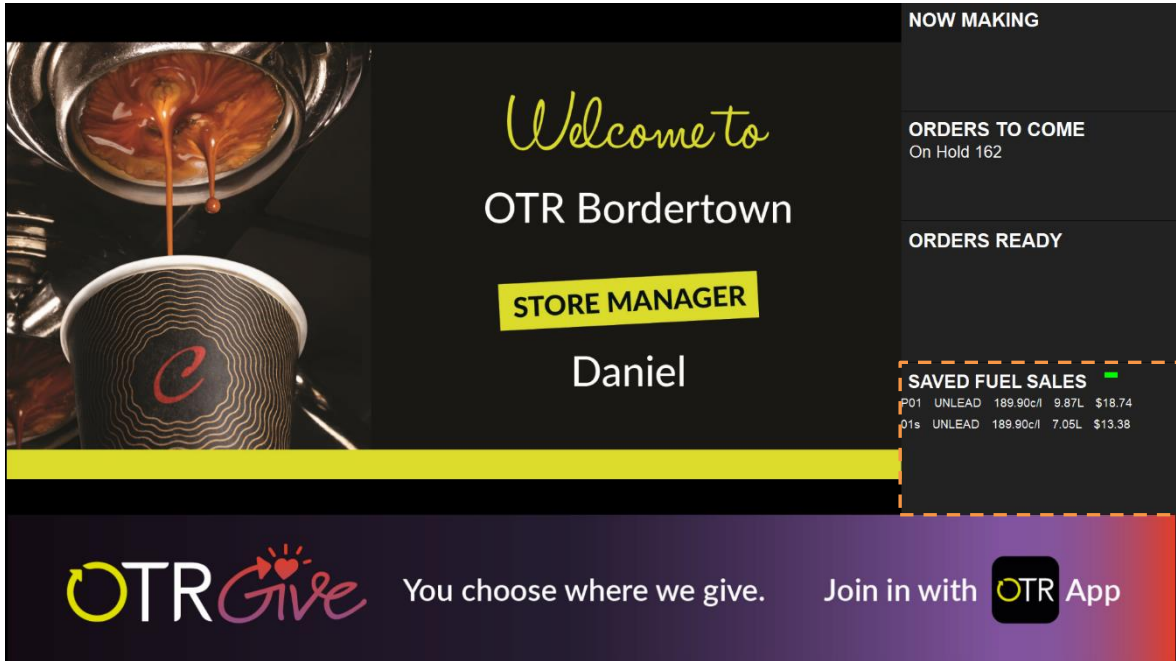
Typical Operator Display

FIGURE S794 – 3



Typical Customer Display

FIGURE S794 – 4



SAVED FUEL SALES				
P01	UNLEAD	189.90c/l	9.87L	\$18.74
01s	UNLEAD	189.90c/l	7.05L	\$13.38

Typical Kitchen Display System (KDS)

FIGURE S690 – 5

TAX INVOICE

OTR Part Wakefield Road (Convenience)
885 Part Wakefield Rd (Corner Part Wakefield Rd & Hadys
Balliver SA 5110
AUS


Trans OTR059C-OTR059C00-509273
Date: 24/01/2024 11:33
Tel: (08) 8200 5859
ABN: 19638356466

ITEM NAME	QTY	PRICE	TOTAL
BP Ultimate 98 Pump number: 9, Sales Id: 703 189.2 t/L	36.19L	\$1.892	\$68.47

Subtotal	\$62.25
Total tax	\$6.22
Total	\$68.47

EFTPOS 68.47

*Indicates GST free item
24/01/2024 11:33:31
Merchant ID: MerchParagrine
Terminal ID: OTR059C0
Purchase Transaction
Amount: \$68.47
VISA: 494059XXXXX9376 (T)
Credit Account
Approved
Reference: 0000 0014 3444
Auth Code: 065505
AID: A0000000031010
ATC: 0531
TUR: 0000000000
ARQC: 5EFCAAAE91E08148


OTR859C001423065

A Typical Receipt

~ End of Document ~