



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

**Interim
Provisional
Supplementary Certificate of Approval
NMI PS686**

VALID FOR VERIFICATION PURPOSES UNTIL 13 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.

Radiant Systems Model Radiant POS Panther Control System for Fuel Dispensers for Motor Vehicles

submitted by Radiant Systems Asia Pacific Pty Ltd
44-46 Little Ryrie Street
Geelong VIC 3215

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.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	13/02/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI PS686' and 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 Conditions of Approval: (Provisional Approval)

This approval is limited to five (5) sites only, the locations of which may be obtained from the National Measurement Institute. The submitter shall advise NMI in writing of the proposed location or serial number of each instrument prior to it being initially verified.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI PS686' and only by persons authorised by the submitter. (Note: The 'P' in the approval number may be a temporary marking.)

The approval will remain provisional pending completion of satisfactory testing and evaluation.

The submitter shall provide NMI with copies of test results from the initial verification and all subsequent tests.

In the event of unsatisfactory performance the approval may be cancelled (or altered).

The submitter shall implement such modifications as required by NMI. In the event that such modifications (if any are required by NMI) are not made to the satisfaction of NMI, this approval may be withdrawn.

1. Description of Pattern provisionally approved on 13/02/15

A Radiant Systems model Radiant POS Panther 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 Radiant POS control system through the Radiant Systems model Panther flowmeter controller.

1.1 Field of Operation

- The Radiant Systems POS operator console, model Panther flowmeter controller (Figure 2) and the back office server are approved for environmental class A, a climate-controlled environment between 5°C and 30°C.
 - The system can provide a self-serve arrangement for up to 32 approved Gilbarco fuel dispensers or other 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.
 - The system operates in a single mode operation, i.e. authorisation of dispensers via attended method only.
- (#) 'Compatible' is defined to mean that no additions/changes to hardware/software are required for satisfactory operation of the complete system.

- Additional Radiant Systems POS operator consoles may be interfaced for multi-attended self-serve operation.
- The nominal supply voltage is 240 V AC.

1.2 System Description

(i) Operator Console

The Radiant Systems POS operator console is comprised of an NCR model 7743 or equivalent (*) interactive touch-sensitive operator display, operating with Radiant Systems POS version 6.x software.

The operator console connects to other operator consoles and a back office server via an Ethernet connection. Other devices connect via RS232 and USB communication ports.

The operator console includes the following additional components:

- A Power Shield model PSC1000 uninterruptible power supply (UPS) or equivalent (*). (Note that the submitter should be consulted regarding any acceptable alternative UPS.)
- A Radiant Systems 2x20 segment customer display.
- A Radiant Systems model C700 graphical display may be connected to the controller as an alternate indication for the customer.
- An Epson model TM-T88V or equivalent (*) receipt printer.

(ii) Flowmeter Controller

The Radiant Systems model Panther flowmeter control unit, provides the interface between the Radiant POS system and the fuel dispensers. The controller connects to the Radiant POS via an Ethernet network through an appropriate hub.

(iii) Back Office Server

A Radiant Systems model S4600 or equivalent (*) back office server acts as a file server for the Radiant POS control 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.

- (*) '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.

1.3 Markings

The Radiant POS console, flowmeter controller and back office server are marked with the following data:

Manufacturer's identification mark or trade mark	Radiant Systems
Manufacturer's designation (model number)
Serial number
Year of manufacture
Pattern approval mark	PS686
Environmental class	Class A

TEST PROCEDURE No 686

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 any relevant tests specified in the National Instrument Test Procedures.

Tests

Points 2-4 are required at commissioning, thereafter may be conducted at the discretion of the inspecting officer.

1. Check the Radiant Systems POS software version. Pressing the 'Other Functions' button followed by the 'Version Info' button from the main POS screen can access software versions.
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 control console and the customer display identify and display the correct data for the corresponding number allocated to the fuel dispenser.

Check that when the customer display is disconnected from the POS console (simulation of fault), the fuel dispenser cannot be authorised for a second delivery unless the transaction for the first delivery has been completed.

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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