Australian Government

National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

No S397A

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

Radiant Model SRV Control System for Fuel Dispensers for Motor Vehicles

submitted by Radiant Systems Asia Pacific Pty Ltd
44-46 Little Ryrie Street
Geelong VIC 3220.

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 117-1, Measuring Systems for Liquids Other than Water, July 2004, being revised.

This Certificate is issued upon completion of a review of approval NSC S397.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 January 2013, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S397A' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S397A' in addition to the approval number of the instrument.

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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.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

DESCRIPTIVE ADVICE

Pattern: approved 26 May 2008

- A Radiant model SRV point of sale control system for fuel dispensers for motor vehicles.

Technical Schedule No S397A describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S397A dated 27 May 2008
Technical Schedule No S397A dated 27 May 2008 (incl. Test Procedure)
Figures 1 to 3 dated 27 May 2008

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

TECHNICAL SCHEDULE No S397A

Pattern: Radiant Model SRV Control System for Fuel Dispensers for Motor Vehicles

Submittor: Radiant Systems Asia Pacific Pty Ltd
44-46 Little Ryrie Street
Geelong VIC 3220

1. Description of Pattern

A Radiant model SRV point of sale control system to provide an attended self-service facility for compatible (#) approved fuel dispensers for motor vehicles. The system (Figure 1) includes at least the Radiant model SRV console, a Postec model PCC4 controller and a Postec model PIPI intelligent purchaser indicator (Figure 2).

1.1 Field of Operation

The field of operation of the measuring system is determined by the following characteristics:

- The model SRV point of sale control system is approved for environmental class A, a climate-controlled environment between 5°C and 30°C
- The Radiant model SRV control console and the Postec PCC4 controller can provide a self-serve arrangement for up to 60 compatible (#) approved fuel dispensers incorporating Compac model C4000 calculator/indicators or any other compatible (#) approved fuel dispensers.
- The system allows post-payment deliveries or stored transaction mode of operation.
- The system allows up to two transactions per fuel dispenser, i.e. current sale on fuel dispenser and a stored transaction
- The nominal supply voltage is 240V AC.

(#) ‘Compatible’ is defined to mean that no additions/changes to hardware/software are required for satisfactory operation of the complete system including all checking facilities.

1.2 System Description

The model SRV point of sale control system comprises:

(i) One or more Radiant SRV control consoles (Figure 2) comprising an IBM-compatible computer or equivalent (*) with SRV version 5.5 point of sale (POS) software designed to operate on the DOS type computer environment. The software requires the use of a keyboard and a computer mouse, or a touch screen visual display unit.

(*) ‘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 including all checking facilities.

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(ii) A Postec PCC4 communications controller, to provide interface and data acquisition between the fuel dispensers and the control console(s), and at least one Postec PIPI purchaser indicator. The Postec components are described in the documentation of approval NSC S398.

(iii) Additional system facilities as listed below:

- An additional purchaser indicator, e.g. a Siemens Nixdorf model M233-D9 (Figure 2) or equivalent (*).
- An optional Epson model M129B ticket printer or equivalent (*) to provide a receipt for the purchaser. Figure 3 shows a typical receipt.
- One or more type SOLA UPS or equivalent (*) uninterruptible power supply units.
- The system may include point of sale facilities (POS) including cash drawers, magnetic card or barcode readers and electronic funds transfer (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.

(*) '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 including all checking facilities.

1.3 Checking Facilities

(i) Printer

The system monitors the condition of the receipt printer (where fitted) and provides a visual warning of an error.

(ii) Customer Display

If the connection to the purchaser indicator from the operator console is interrupted or an error occurs with the display, an error message is displayed on the operator's screen.

The button on the PIPI display will allow the manual recall of necessary transaction information, including the status (e.g. current sale or stored transaction). Memory authorisation must be disabled if the PIPI is disconnected from the PCC4 controller as detailed in the documentation of approval NSC S398.

(iii) The system monitors the communication with the fuel dispensers and any error detected is displayed to the operator.

1.4 Verification/Certification

The SRV point of sale control system has provision for the application of a verification/certification mark.

1.5 Descriptive Markings

The SRV point of sale control system is marked with the following data (shown below at right):

Manufacturer's name or mark	……..
Model number	……..
Serial number	……..
Pattern approval mark	NMI S397A
Year of manufacture	……..
Environmental class:	
Radiant SRV control console	A

TEST PROCEDURE

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 Uniform Test Procedures.

The maximum permissible errors applicable are those applicable to the fuel dispensers to which the instrument approved herein is fitted, as stated in the approval documentation for the fuel dispensers or in Schedule 12 of the *National Measurement Regulations 1999*.

Items 3-6 below are required at **commissioning**, thereafter may be conducted at the discretion of the inspecting officer.

1. Check the software version number from the Radiant SRV control console sales screen.
2. Check the PCC4 controller software version number at the PIPI by pressing the button down for more than 5 seconds and then releasing.
3. Check that the unit price change for the grade of fuel is implemented to the allocated fuel dispensers when they are available for authorisation.
4. Check that the control console and the PIPI identify and display the correct data for the corresponding number allocated to the fuel dispenser.
5. Check that when the PIPI is disconnected from the Postec PCC4 controller (simulation of fault), the fuel dispenser cannot be authorised for a second delivery unless the transaction for the first delivery has been completed.
6. Check that when the purchaser indicator is disconnected from the SRV console, a warning message appears advising of an error with the purchaser indicator. Ensure that while the PIPI is connected to the PCC4 controller, memory transaction details can be retrieved
7. For systems with a printer, check that the printed receipt contains the correct format and data as per the typical sample in Figure 3.

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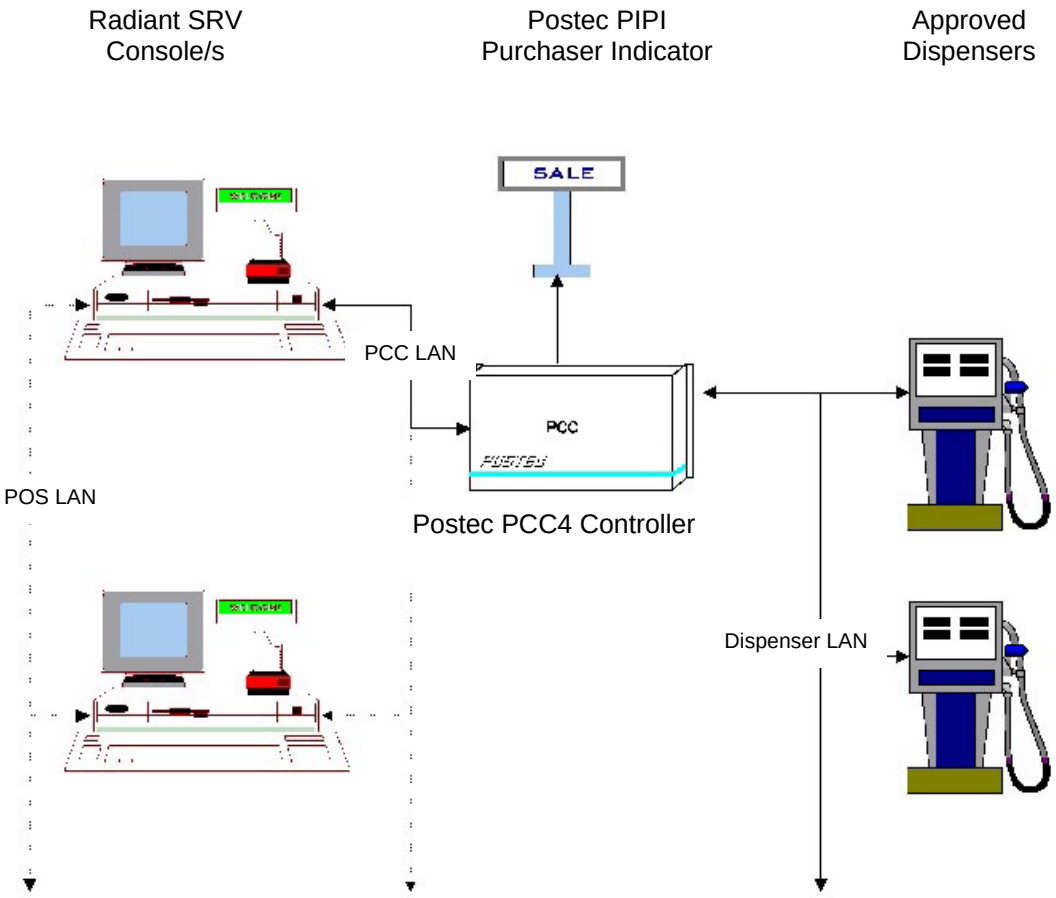
FIGURE S397A – 1



Typical Model Radiant SRV Control System

FIGURE S397A – 2

Radiant SRV Control Console

Postec PCC4 Controller and
Postec PIPI Purchaser Indicator

Siemans Nixdorf Purchaser Indicator

Epson Printer

System Components

FIGURE S397A – 3

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        TAX INVOICE
RADIANT SYSTEMS ASIA-PACIFIC
T/As RADIANT SYSTEMS ASPAC
A.C.N. 006 967 175
44 LITTLE RYRIE ST
GEELONG
   ABN 50 002 913 911
* CASH SALE R 14/03/08 10:38 1 8454

Synergy Lead Replacement Petr   $76.73 G
 Pump:1     80.77L @ 0.950$/L
CAD CHUPA CHUPS                  $0.49 G
 5300           1.00 @  $0.49
COKE 375ml CAN                   $5.40 G
 9300675001410  3.00 @  $1.80
ROYAL GALA APPLES                $3.92
 4501    0.984kg @  3.98$/kg

VISA      50.00
CASH      36.55     SUB-TOTAL   $86.57
REF.                Rounding   -$0.02
GST        7.51   TOTAL PRICE   $86.55
# ITEMS 2
G = ITEMS INCLUDE G.S.T.
THANK YOU - PLEASE CALL AGAIN
TOTAL INCLUDES G.S.T.
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Sample Receipt