



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S467

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.

Wincor Model Namos Control System for Fuel Dispensers for Motor Vehicles

submitted by Caltex Australia Petroleum (Pty) Ltd
 2 Market Street
 Sydney NSW 2000

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, dated July 2004.

This approval becomes subject to review on **1/12/15**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	28/11/05
1	Pattern – certificate issued	7/12/05
2	Pattern amended – notification of change issued	21/05/08
3	Variant 1 approved – interim certificate issued	10/06/09
4	Variant 1 – certificate issued	26/10/09
5	Pattern amended – notification of change issued	10/12/09
6	Pattern and variant 1 reviewed & updated – certificate issued	22/03/12
7	Variant 2 approved – certificate issued	7/08/14

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S467' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S467' in addition to the approval number of the instrument, and 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.

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

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

A handwritten signature in black ink, appearing to read 'Dr A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

TECHNICAL SCHEDULE No S467

1. Description of Pattern

approved on 28/11/05

A Wincor model Namos control system (Figure 1) to provide an attended self-service operation for use with compatible (#) approved fuel dispensers. The system includes at least the Wincor model Namos point of sale (POS) console, a Postec model PCC4 controller and a Postec model PIPI intelligent purchaser indicator (Figure 2).

1.1 Field of Operation

- The Wincor model Namos 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 NMI-approved fuel dispensers fitted with Transponder Technologies model T5 indicators (as described in the documentation of approval NSC S414) 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 fuel dispenser and a stored transaction.
 - The system operates in a single mode operation, i.e. authorisation of dispensers via attended method only.
 - Additional POS operator consoles may be interfaced for multi-attended self-serve operation.
 - The nominal supply voltage is 240 V 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 Wincor model Namos system comprises:

(i) Operator Console

The Wincor model Namos operator console (Figure 2) comprises an IBM compatible computer, with Namos PoS software version 6.2 [6.2.11 AU] or version 7.xx running under a Microsoft Windows XP or compatible operating system.

The operator console indicates the status of fuel dispensers (e.g. Authorised, In use, Stopped).

(ii) Customer Display

A Fujitsu model 2000 FTP-CDXX or any other equivalent (*) customer display (Figure 2) is connected to the console through a serial port connection.

- (*) “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.

This display updates automatically for the benefit of the purchaser, the following information:

- The fuel dispenser ID number
- The type of fuel
- The total price

(iii) Communications Controller (Figure 2)

The Postec model PCC4 communications controller provides the interface between the Namos PoS control system and the fuel dispensers. The Postec PCC4 controller operates with Postec software version 6.32 (*).

A PIPI display connected to the PCC4 controller (Figure 2) provides the following information when the button on its base is pressed:

- The fuel dispenser ID number
- The measured volume of fuel
- The total price

(*) The Postec model PCC4 controller is described in the documentation of approval NMI S398 including approved software versions. As software versions are upgraded and listed in approval S398, they may be used in this approval.

(iv) Optional Devices

In addition to the operator console the following optional devices may be connected:

- Barcode scanner
- Electronic funds transfer facilities
- Epson model M129C or any other equivalent (*) customer receipt printer – Note that the printer is mandatory for pre-payment transactions. Typical sample tickets are shown in Figure 3.

(*) “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) Receipt Printer

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

(ii) Customer Display

The system monitors the condition of the customer display and provides a visual warning on the operator console when an error is detected. A visual segment checking facility is provided to verify display operation.

(iii) PIPI Display

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

(iv) Communication

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

1.4 Markings

The Wincor model Namos operator console is marked with the following data:

Manufacturer's name or mark
Manufacturer's designation (model number)
Serial number
Approval number	NMI S467
Environmental class	Class A

1.5 Verification Provision

Provision is made for the application of a verification mark.

2. Description of Variant 1 approved on 10/06/09

With Namos PoS version 7.7.3.0.4 software allowing interfacing to the Gilbarco FLEXPAY card-operated control system (as described in the documentation of approval NMI S515).

3. Description of Variant 2 approved on 7/08/14

For use with fuel dispensers which are NMI-approved for use with CNG (compressed natural gas) in which case the indications of product delivered are displayed in kilograms.

A typical receipt for this variant is shown in Figure 4.

TEST PROCEDURE No S467

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors applicable are those specified for the flowmetering system in which the pattern is fitted, as stated in the approval documentation for the system or in Schedule 1 of the *National Trade Measurement Regulations 2009*.

Tests

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

1. Check the Namos PoS software version number by selecting the '*Soft. ID Lang.*' button from the '*more functions*' menu.
2. Check the PCC4 controller software version number; the version number can be viewed 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 measurement 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. A pre-paid delivery is only possible for fuel dispensers with pre-set facility. For a pre-paid delivery check that the amount displayed on the fuel dispenser equals the pre-paid amount. Ensure that the printed receipt contains the correct format and data as per the typical samples in Figure 3.

FIGURE S467 – 1

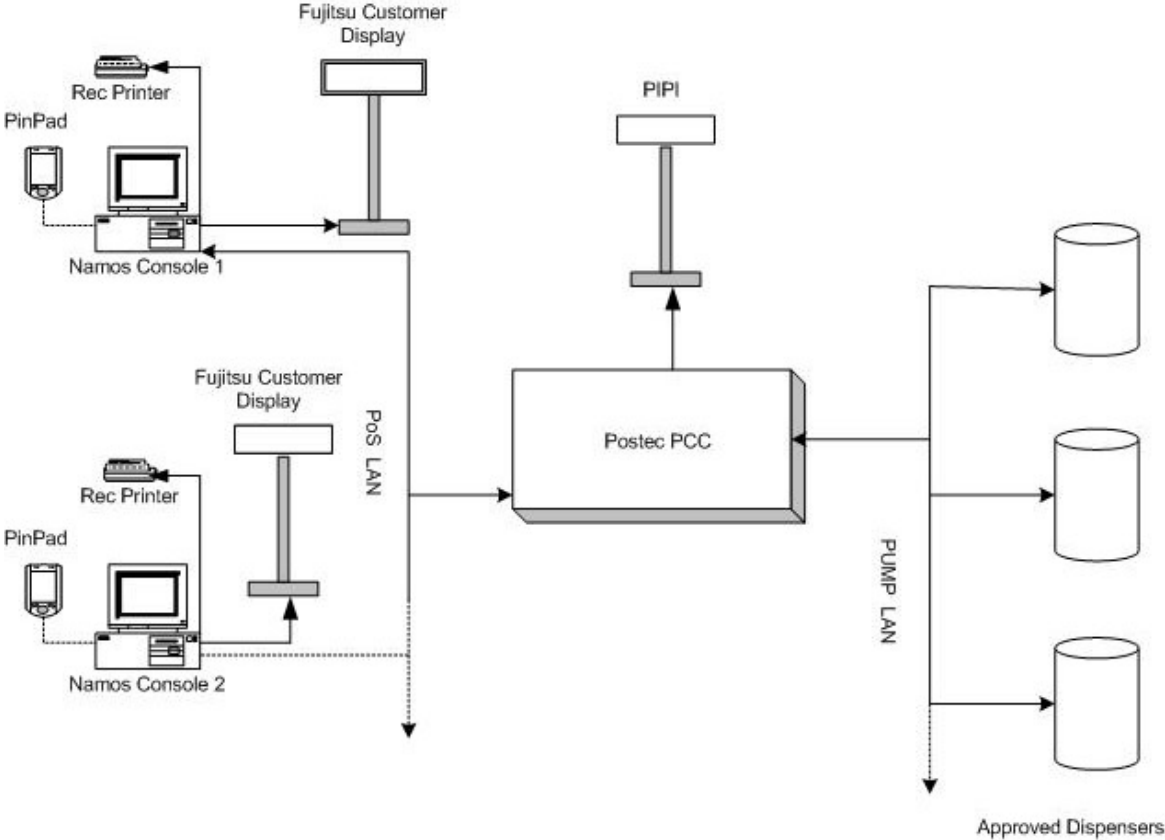


FIGURE S467 – 2



Wincor Model Namos Operator Console
Including Touchscreen Display

Typical Customer Display



Postec Model PCC4 Controller and Model
PIPI Intelligent Purchaser Indicator

Wincor Model Namos Control System – Major Components

FIGURE S467 – 3

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Calstores Pty Ltd
Caltex Woolworths at Queens Lab
* Indicates GST inclusive item
ABN 123 456 789
>>>>>>>>>>> Tax invoice <<<<<<<<<<<<
02 98VORTEX 22.56L @ $1.236/L $ 27.89 *
Total includes GST           $   27.89
Cash                          $   30.00
Return                        2.10 $   2.11
10.00 % GST *                 $   2.54
Date      Time Num  POS CNo PSNo
12/03/12 20:03 00204 01 0001 016
      Thank you for shopping at Caltex
      Please call again
    
```

```

Calstores Pty Ltd
Caltex Woolworths at Queens Lab
* Indicates GST inclusive item
ABN 123 456 789
Duplicate
>>>>>>>>>>> Tax invoice <<<<<<<<<<<<
02 98VORTEX 22.56L @ $1.236/L $ 27.89 *
Total includes GST           $   27.89
Cash                          $   30.00
Return                        2.10 $   2.11
10.00 % GST *                 $   2.54
Date      Time Num  POS CNo PSNo
12/03/12 20:03 00204 01 0001 016
      Thank you for shopping at Caltex
      Please call again
    
```

```

Calstores Pty Ltd
Caltex Woolworths at Queens Lab
* Indicates GST inclusive item
ABN 123 456 789
>>>>>>>>>>> Tax invoice <<<<<<<<<<<<
Prepayment
02 E10 ULP 39.75L @ $1.258/L $ 50.00 *
Total includes GST           $   50.00
Cash                          $   50.00
10.00 % GST *                 $   4.55
Date      Time Num  POS CNo PSNo
12/03/12 20:06 00209 01 0001 016
      Thank you for shopping at Caltex
      Please call again
    
```

```

Calstores Pty Ltd
Caltex Woolworths at Queens Lab
* Indicates GST inclusive item
ABN 123 456 789
>>>>>>>>>>> Refund <<<<<<<<<<<<
>>>>>>>>>>> Tax invoice <<<<<<<<<<<<
Prepayment refund
02 E10 ULP -23.81L @ $1.258/L $ 29.94-*
Total includes GST           $   29.94-
Cash                          29.95-$ 29.94-
10.00 % GST *                 $   2.72-
Date      Time Num  POS CNo PSNo
12/03/12 20:07 00210 01 0001 016
      Thank you for shopping at Caltex
      Please call again
    
```

Sample Typical Tickets (Pattern & Variant 1)

FIGURE S467 – 4



Sample Typical Ticket – CNG System (Variant 2)

~ End of Document ~