



Australian Government  
Department of Industry,  
Innovation and Science

## National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

# Supplementary Certificate of Approval

## NMI S708

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.

Computer Vision Model QuickFuel Control System for Fuel Dispensers for Motor Vehicles

submitted by Computer Vision Business Solutions Vic Pty Ltd  
Suite 8, 75 Bay Street  
Brighton VIC 3186

**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 becomes subject to review on 1/01/24, and then every 5 years thereafter.

### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	17/12/15
1	Pattern approved – certificate issued	19/12/18
2	Pattern amended (server computer description) – Variant 1 & 2 approved – certificate issued	21/11/19

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S708' and only by persons authorised by the submitter.

Instruments purporting to comply with this approval and currently marked 'NMI PS708' may be re-marked 'NMI S708' 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 S708

### 1. Description of Pattern

**approved 17/12/15  
amended 21/11/19**

A Computer Vision model QuickFuel 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 QuickFuel Point of Sale system through the Integration Technologies Enabler 3 PCI and Enabler Embedded (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 Computer Vision model QuickFuel Point of Sale (POS) system (Figure 1) comprises:

##### (i) Point of Sale (POS) Console

The Point of Sale console comprises a QuickFuel AIO PC or equivalent (\*) PC-based device using a Microsoft Windows operating system running QuickFuel NMI S708 software. The software version number including NMI certification number is displayed in the header banner of the application.

The QuickFuel AIO PC includes integrated uninterruptible power supply or any equivalent (\*) UPS may be connected to the point of sale (POS) console.

##### (ii) Electronic Indications

A QuickFuel AIO POS-18 or equivalent (\*) touch sensitive display is connected to the POS Controller to provide an indication for the operator (Figure 2).

A QuickFuel CFD model CFD-17 BLK display or equivalent (\*) is connected to the controller and provides 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) Printing Devices**

A QuickFuel QF-260TF thermal receipt printer or equivalent (\*) is connected to the POS console. Figure 4 shows a typical transaction record.

### **(iv) Server Computer and Controller**

The server computer comprises a HP model 5820PC or equivalent (\*) with an Integration Technologies model Enabler Express PCI Controller, or an Enabler Embedded Controller (Variant 4) as described in approval NMI S518. The server computer operates as a database server for the POS consoles and may be configured to operate as a Point of Sale console.

For systems that utilise the Integration Technologies model Enabler Embedded Controller, or any approved variation of controller that forms a separate device from the Server Computer, a cloud based server for operation of the database for the POS consoles may be used.

### **(v) Additional System Facilities**

In addition, the model QuickFuel 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.

(\*) '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 Checking Facilities**

### **(i) Customer Display**

The POS console monitors deliveries authorised to be stored in memory. If an error is detected with the customer display, a message is displayed on the operators display and the ability to store a result in memory and authorise a second delivery will be prevented until the detected error condition is resolved.

### **(ii) Uninterruptible Power Supply (UPS)**

The system monitors the condition of the UPS and if an error or power failure is detected a visual warning is displayed on the operator's screen. The ability to authorise deliveries will be prevented until the detected error condition is resolved.

### **(iii) Receipt Printer**

The system monitors the condition of the receipt printer and if an error is detected, a visual warning is displayed on the operators screen.

## **1.4 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 S708

## 1.5 Verification Provision

Provision is made for the application of a verification mark.

### 2. Description of Variant 1

approved on 21/11/19

With the Server Computer including the Integration Technologies Enabler Controller of the pattern described in **1.2 System Description** replaced by a DOMs Model PSS5000 controller or compatible controller variations as described in approval NMI S738.

This variation includes all checking facilities as described in **1.3 Checking Facilities** of this Certificate. **Note:** A PIPI display is not mandatory as described in certificate NMI S738 clause **1.3 Checking Facilities - (ii) Customer Display (PIPI)**.

### 3. Description of Variant 2

approved on 21/11/19

With the Server Computer including the Integration Technologies Enabler Controller of the pattern described in **1.2 System Description** replaced by a Wayne Fueling Systems model Fusion 6000 controller or compatible controller variations as described in approval NMI S730.

This variation includes all checking facilities as described in **1.3 Checking Facilities** of this Certificate.

## TEST PROCEDURE No S708

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 QuickFuel software version number **NMI 708**.
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. Check that when the customers' display is disconnected from the Point of Sale console, a warning message is displayed on the operators' screen. Ensure that the ability to authorise a stored delivery is not possible while the customers' display is disconnected

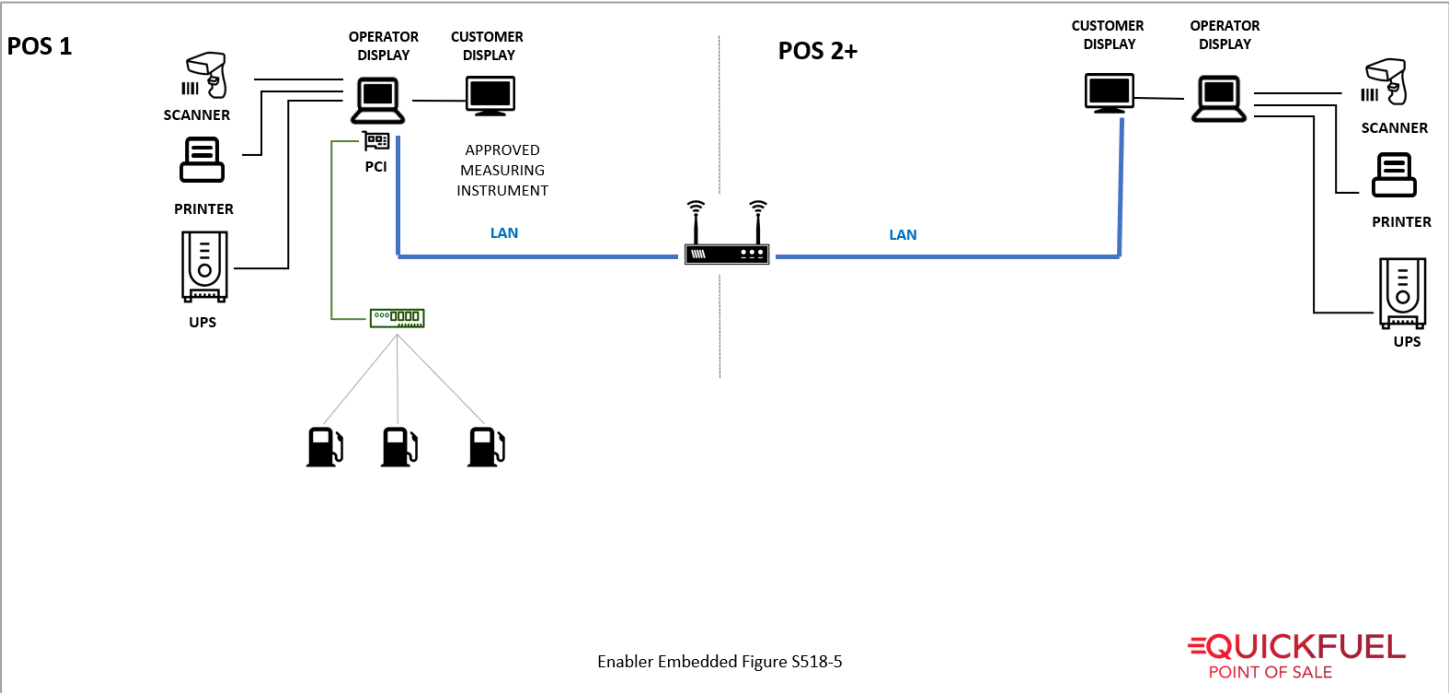
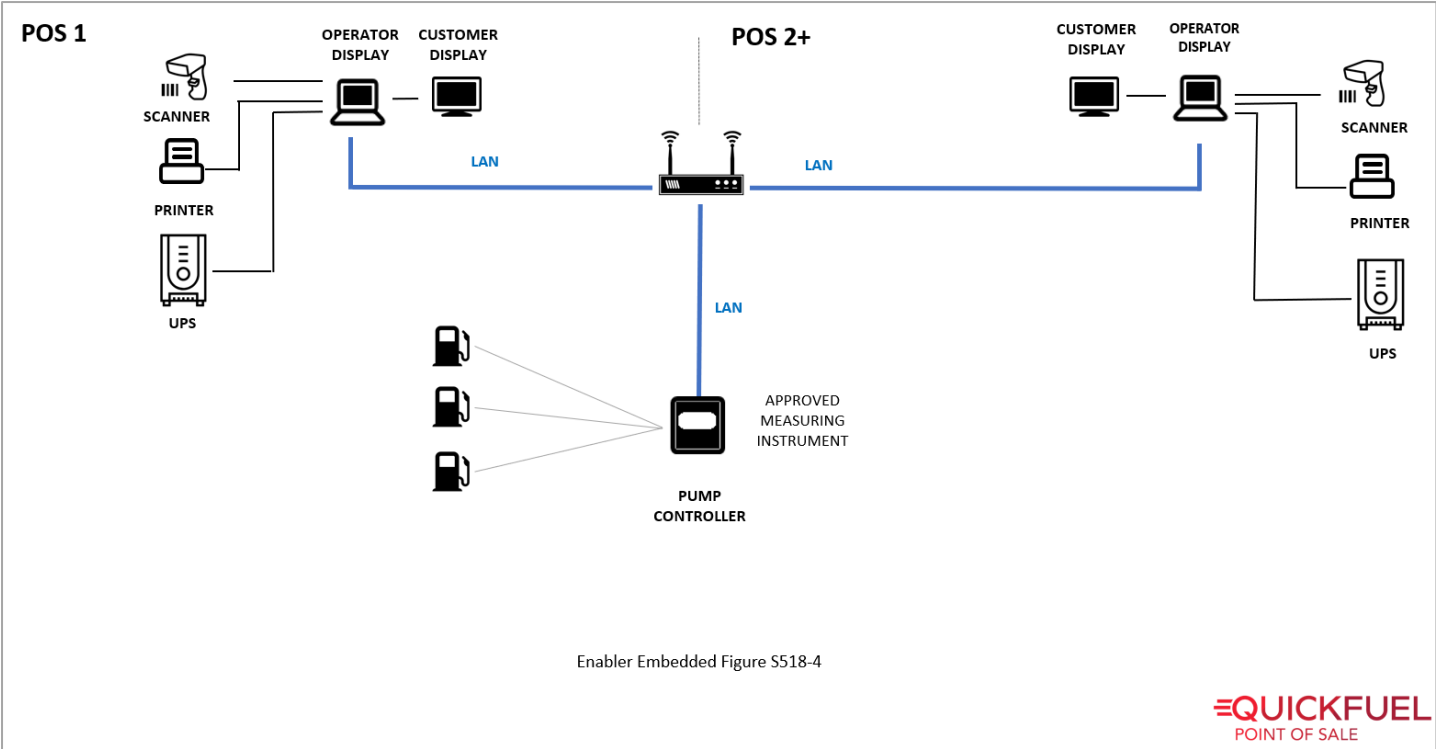


FIGURE 1

Computer Vision Model QuickFuel Control System for Fuel Dispensers  
for Motor Vehicles

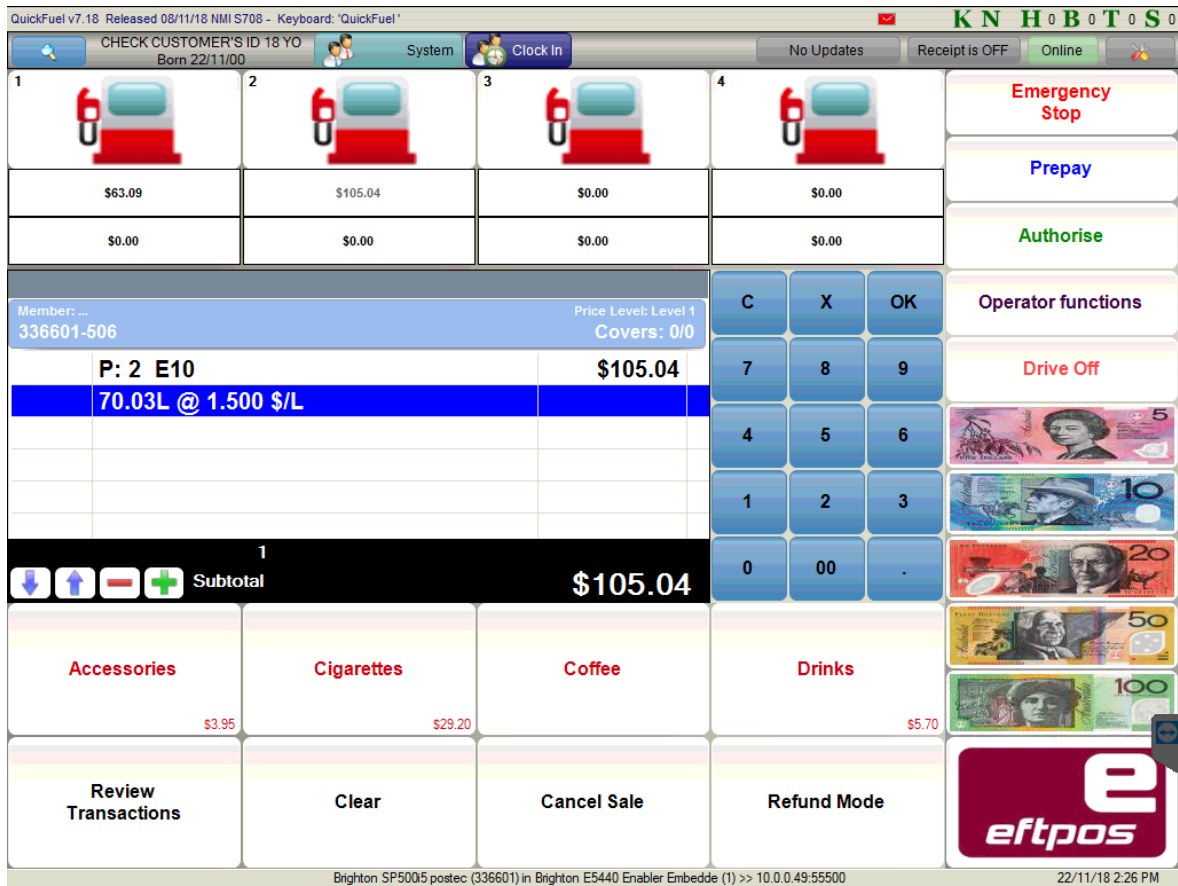


FIGURE 2

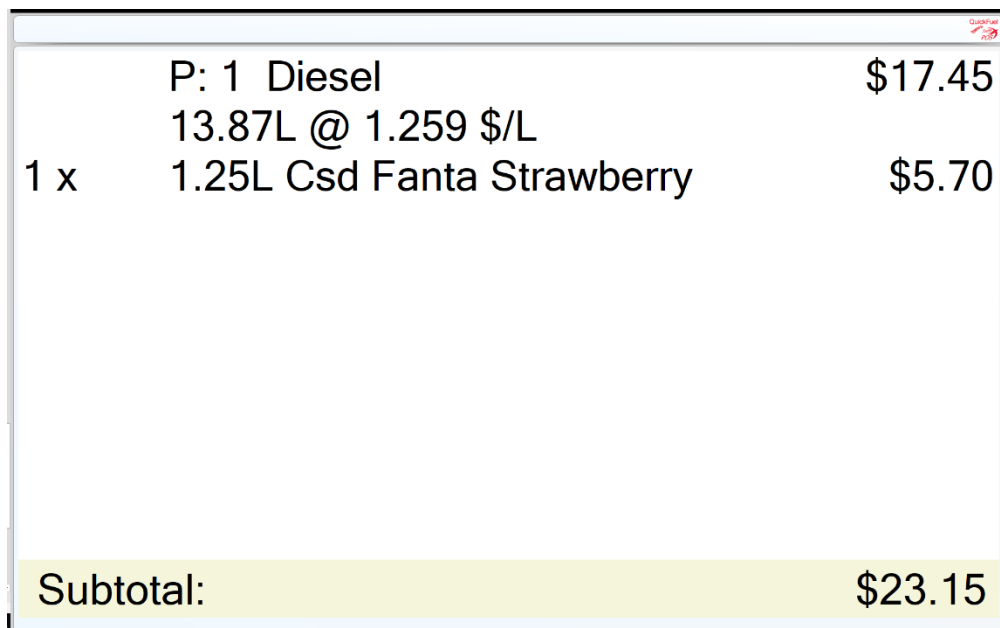


FIGURE 3

Typical Display

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POS Demonstration
Wallaby Lane
Spooky Beach
Sydney NSW

TAX INVOICE

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#P:4 ULP 91                                $24.35
12.69L @ 1.919 $/L
      SALE TOTAL:                          $24.35
      EFTPOS:                               $24.35

Reprinted By: 0 System

Receipt #: 539
Date: 12/06/2018  Time: 1:39:49 PM
Clerk: 0 System
Terminal: 88 Dell E5440
```

FIGURE 4

A Typical Receipt

~ End of Document ~