



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval NMI S527

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.

Neotechnology Model Amicus Control System for Fuel Dispensers for Motor Vehicles

submitted by Neotechnology Pty Limited
now of Suite 1.01, 175 Castlereagh 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 of the pattern has been granted with reference to document NMI R 117-1, Measuring Systems for Liquids Other than Water, July 2004.

This approval becomes subject to review on 1 June 2015, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	4/11/09
1	Pattern approved – interim certificate issued	17/05/10
2	Pattern approved – certificate issued	8/06/10
3	Variants 1 & 2 provisionally approved – interim certificate issued	7/03/14
4	Pattern amended (validity date) – interim certificate issued	22/09/14
5	Variants 1 & 2 approved – certificate issued	29/01/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S527' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI PS527' may be re-marked 'NMI S527' but only by persons authorised by the submittor.

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*.

Dr A Rawlinson

TECHNICAL SCHEDULE No S527

1. Description of Pattern **provisionally approved on 4/11/09** **approved 17/05/10**

A Neotechnology model Amicus 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 Amicus point of sale system through the Integration Technologies Enabler 3 PCI (as described in approval NMI S518).

- 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 approved Gilbarco Enterprise 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.
 - Additional POS 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 system.

1.2 System Description

The model Amicus point of sale control system comprises:

(i) Point of Sale (POS) Console

The point of sale console comprises an HP 5700 series computer or equivalent (*) using a Microsoft Windows XP operating system running Amicus version 6.xx.xx software including Fuel Module 1.0.0.x.

The POS console features a touch sensitive operator's display and a VGA or higher resolution LCD monitor operating as the customers display. A model FK225AA HP column-mounted indicator or equivalent (*) may be used in place of the high resolution LCD monitor customers' display.

An Epson model TM-T88III receipt printer or equivalent (*) is connected to the POS console. A typical receipt is shown in Figure 2.

Dispenser ('pump') status icons indicate the condition of the fuel dispensers controlled by the site controller (e.g. 'In use', 'On Hold' or controlled by unattended authorisation device).

- (*) '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.

(ii) Audit Trail Printer

An Epson model TM-T88III audit printer or equivalent (*) is connected to the POS console. The printer automatically prints fuel delivery details when a measurement result is stored in memory and a second delivery authorised. In a configuration with multiple POS consoles, the audit trail printer is connected to the console configured as the 'Fuel Master Till'.

(ii) Server Computer

The Server Computer comprises an HP RP57000 series computer or equivalent (*) with an Integration Technologies model Enabler 3 PCI forecourt flowmeter controller as described in approval NMI S518. The server computer operates as a database server for the POS consoles. The server computer may also be configured to operate as a POS console.

(iii) Additional System Facilities

In addition, the model Amicus point of sale control system may include point of sale facilities including cash drawers, a magnetic card or barcode reader 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.

1.3 Checking Facilities

(i) Audit Printer

The POS console configured as the 'Fuel Master Till' monitors deliveries authorised to be stored in memory. If an error is detected with the Audit printer, 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) 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.

(iii) Customer Display

A visual checking facility is provided to verify display operation for column-mounted display models.

1.4 Verification Provision

The Amicus point of sale control system has provision for the application of a verification provision mark.

(*) '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.

1.5 Descriptive Markings

The Amicus 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 S527
Year of manufacture
Environmental class	A

2. Description of Variant 1 **provisionally approved on 7/03/14** **approved 29/01/15**

A Neotechnology model Amicus point of sale control system to provide certain additional facilities for transactions when interfaced to compatible (#) NMI-approved measuring instruments granted with reference to document NMI M7.

2.1 Key Features

- The system provides point of sale arrangements for a Datalogic model Magellan 8405 self-indicating non-automatic weighing instrument (approval NMI 6/4C/252) or other compatible (#) NMI-approved measuring instruments.
 - The system receives measurement data from the output interface of the approved measuring instrument and computes prices using a product look up (PLU) facility.
 - The system computes total price for multiple items including non-measured items and is approved for use for transactions direct to the public.
 - The system is able to apply a tare or pre-set tare value up to the maximum capacity of the approved measuring instrument. Pre-set tare values may be keyboard-entered or stored (e.g. within a PLU facility).
- (#) '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.

2.2 System Description

The Neotechnology model Amicus Point of Sale control system (Figure 3) comprises:

(i) POS Controller

The Neotechnology model Amicus Point of Sale control system POS controller comprises an HP 5800 series or EPOS model 5500 computer or equivalent (*) PC-based device that operates a Microsoft Windows-based operating system running Amicus version 6.xx.xx software. The software version number is displayed on the Business Details Dialog.

- (*) '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.

(ii) Electronic Indications

Indications shall satisfy the requirements of document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*.

An EPOS model 5500 'all in one' terminal with ELO touch controller or equivalent (*) is connected to the POS controller to provide an indication for the operator (Figure 4).

The EPOS model 5500 'all in one' terminal also has another integral display to provide an indication for the customer (Figure 5). Alternatively, an equivalent (*) LCD monitor may provide an indication for the customer.

Information additional to that required by document NMI M7, including totalisation details and product images, may also be indicated.

(iii) Printing Devices

Transaction records shall satisfy the requirements of document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*.

An Epson model TM-81/82/88V printer or equivalent (*) is connected to the controller to provide transaction record printing facility. A typical receipt is shown in Figure 6.

(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.

3. Description of Variant 2 provisionally approved on 7/03/14 approved 29/01/15

The Neotechnology model SprintPOS Point of Sale POS system which is identical to the Amicus Point of Sale Control System (Variant 1) but with reduced management functions accessible by the user.

The Neotechnology model SprintPOS Point of Sale System POS controller comprises an EPOS model 5500 'all in one' terminal or equivalent (*) PC-based device that operates a Microsoft Windows-based operating system running SprintPOS Point of Sale System version 6.xx.xx software. The software version number is accessed on the Business Details Dialog.

(*) '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.

TEST PROCEDURE No S527

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*.

A. The Pattern

Points 2-6 are required at commissioning, thereafter they may be conducted at the discretion of the inspecting officer.

1. Check the Amicus POS Fuel Module software version number. The version number is displayed from the main menu, after closing the sale screen, and selecting 'about' from the 'help' menu on the title bar.
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. Authorise a stored delivery and check that the delivery details of the first delivery to be stored in memory is printed on the audit printer.
6. Remove paper from the audit printer and check that when the printer is unavailable, the warning message is displayed on the POS console. Ensure that the ability to authorise a stored delivery is not possible.

B. Variants 1 & 2

The POS system shall be tested in addition to any tests specified in the approval documentation for the measuring instrument/s to which the POS system is connected, as appropriate

The POS system shall be tested in the normal operational mode of the instrument and device, not in 'training mode' or any other management mode.

Maximum Permissible Error

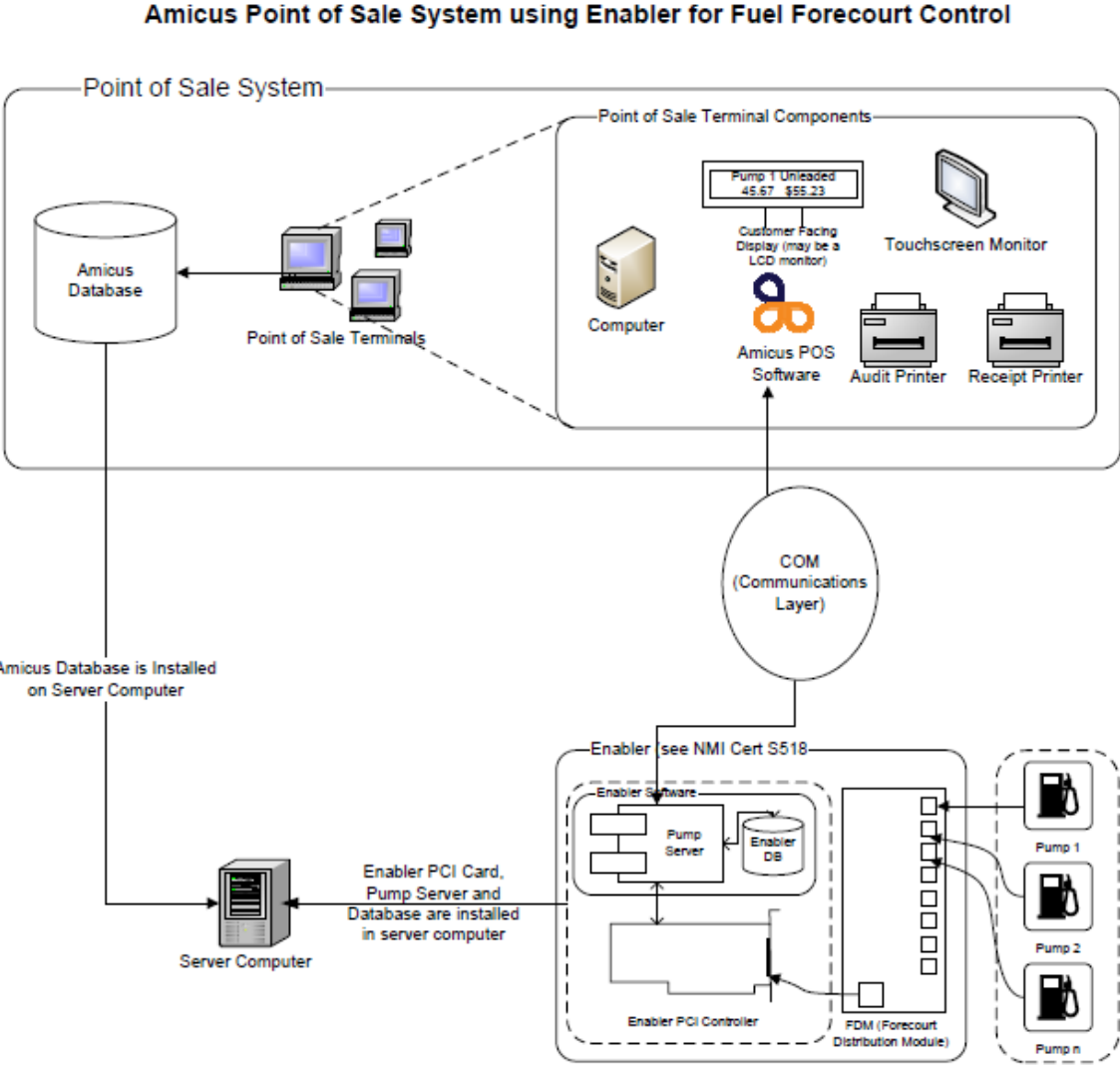
The maximum permissible error for price computation is ± 0.5 cent.

TESTS

1. Check the software version number/s.
2. Check that the POS system faithfully reproduces the measurement data in the same units and scale interval as the connected approved measuring instrument, e.g. test by using a PLU without a stored tare.
3. Check that the system performs correct price computation, and computes and indicates a correct unrounded subtotal. For cash payment methods, check that any rounding calculation is correct.

4. Perform a measurement with a pre-set tare applied and confirm that the POS system correctly calculates and indicates a net measurement result.
5. Ensure that electronic indications and printed information are in accordance with document NMI M7.

FIGURE S527 – 1



Neotechnology Model Amicus Control System for Fuel Dispensers for Motor Vehicles - System Overview (Pattern)

FIGURE S527 – 2

Powered by Amicus
neotechnology.com.au/amicus

DEMONSTRATION VERSION

Site : Default
Till : 1
Tax Invoice : 12001
(Duplicate)
Date : 30 Apr 2010 12:56:20

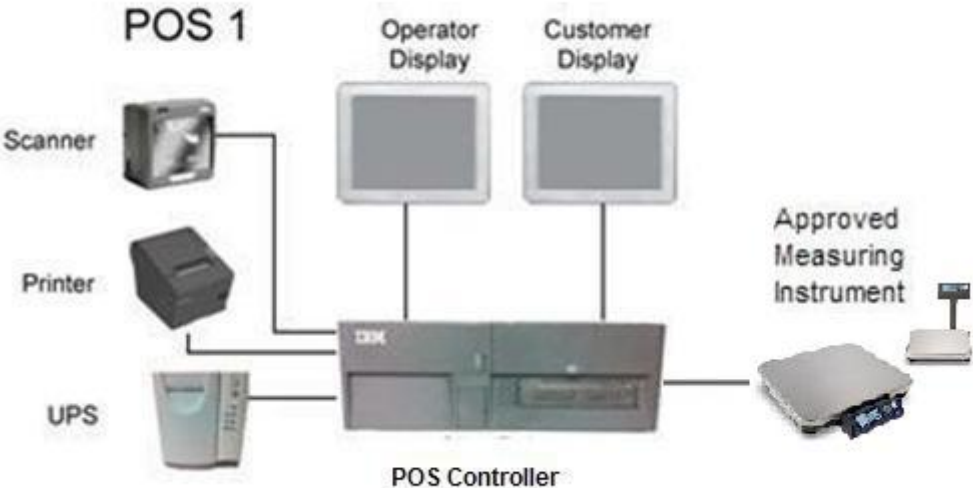
Account No : 1
Account Name : SALE CASH

Desc.	Qty	Unit \$	Total \$
Pump 1 ULP @\$1.295/L	10.21L	1.295	13.22
Total Merchandise :			\$13.22
CASH SALE			
	Rounding :		(\$0.02)
	Total :		\$13.20
Paid (Cash)	:		\$13.20
	Since Paid :		\$0.02
		PAID IN FULL	
	Change Given :		\$5.80

This invoice includes GST
to the value of \$1.20

A Typical Receipt (Pattern)

FIGURE S527 – 3



Neotechnology Point of Sale (POS) System (Variants 1 & 2)

FIGURE S527 – 4

Standard Actions

Cash In/Out	Close Till	Balance Till
Running Balance	Reverse Sale	Stock Adjustment
Transfer	Receipt	Stocktake
Quote		

Acc: CASH, SALE 1 Eind New Total: \$11.29 **amicus**

Ph: Ref: Vjew Tend:

Override Name Chng:

Code	Description	Price	Qty	Dis%	Total
APPLES	APPLES/1kg	\$3.99/kg	0.105kg N	0%	\$0.42
OLIVESALAD	OLIVE SALAD	\$4.99/kg	0.495kg N	0%	\$2.47
OLIVESALAD	OLIVE SALAD	\$4.99/kg	1.195kg N	0%	\$5.96
OLIVESALAD	OLIVE SALAD	\$4.99/kg	0.385kg N	0%	\$1.92
APPLES	APPLES/1kg	\$3.99/kg	0.130kg N	0%	\$0.52

\$11.29

Barcode Enter partial description and press [Tab] or [Enter]. Use % at start to search

Supervisor	Qty ±	Qty ±	Apply Discount	5% Discount	7	8	9
Delete Item	Price Override	Qty Override	10% Surcharge	10% Discount	4	5	6
Cash In/Out	Close Till	Balance Till	Running Balance	Reverse Sale	1	2	3
Stock Adjustment	Transfer	Receipt	Stocktake	Quote	0	.	Clear
Cash	Cheque	Card	Account	Split Payment	Yes/OK	Alpha Pad	
					Suspend Sale	Close	

Typical Operator Display (Variants 1 & 2)

FIGURE S527 – 5

Description	Price Per	Qty	Price
APPLES/1kg	\$3.99/kg	0.130kg N	\$0.52
OLIVE SALAD/1kg	\$4.99/kg	0.385kg N	\$1.92
OLIVE SALAD/1kg	\$4.99/kg	1.195kg N	\$5.96
OLIVE SALAD/1kg	\$4.99/kg	0.495kg N	\$2.47
APPLES/1kg	\$3.99/kg	0.105kg N	\$0.42
Served by: Stanc Total:			\$11.29

Typical Customer Display (Variants 1 & 2)

FIGURE S527 – 6

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DEMONSTRATION VERSION

Site      : Default
Till      : 1
Invoice   : 5001
Date      : 29/10/2014 11:20

Account No  : 1
Account Name : SALE CASH

-----
Desc.      Qty  Unit $      Total $
-----
APPLES/1kg
           0.105kg N  3.99/kg      0.42
OLIVE SALAD/1kg***
           0.495kg N  4.99/kg      2.47
OLIVE SALAD/1kg
           1.195kg N  4.99/kg      5.96
OLIVE SALAD/1kg
           0.385kg N  4.99/kg      1.92
APPLES/1kg
           0.130kg N  3.99/kg      0.52

*** weight manually entered.

Total Merchandise :      $11.29
CASH SALE
Rounding          :      $0.01
-----
Total            :      $11.30
Paid (Cash)      :      $11.30
PAID IN FULL
Change Given     :      $8.70

This invoice includes GST
to the value of $1.02

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A Typical Receipt (Variants 1 & 2)

(Note that the above is a mock-up only – for trade use, receipts must show the 'Total' in **bold type**)

~ End of Document ~