S460
26 October 2006

Australian Government

National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Supplementary Certificate of Approval No S460
Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the

Pumplink Model MK1 Control System for Fuel Dispensers for Motor Vehicles

submitted by Datavision Group Pty Ltd
Suite 1, 5 Highclere Avenue
Punchbowl NSW 2196.

A. In Technical Schedule No S460 dated 1 December 2005, clause **1. Description of Pattern** should be amended to read, in part:
"... to provide **attended** self-service operation ..."

B. In Supplementary Certificate of Approval No S460 dated 1 December 2005, the FILING ADVICE should be amended by adding the following:
"Notification of Change No 1 dated 26 October 2006"

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

Australian Government

National Measurement Institute

12 Lyonpark Road, North Ryde NSW 2113

Supplementary Certificate of Approval

No S460

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

Pumplink Model MK1 Control System for Fuel Dispensers for Motor Vehicles

submitted by Datavision Group Pty Ltd
Suite 1, 5 Highclere Avenue
Punchbowl NSW 2196.

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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 November 2010, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S460' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S460' in addition to the approval number of the instrument.

..../2

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 4 October 2005

- A Pumplink model MK1 control system for use with compatible approved fuel dispensers for motor vehicles.

Technical Schedule No S460 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S460 dated 1 December 2005
Technical Schedule No S460 dated 1 December 2005 (incl. Test Procedure)
Figures 1 and 2 dated 1 December 2005

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 S460

Pattern: Pumplink Model MK1 Control System for Fuel Dispensers for Motor Vehicles

Submittor: Datavision Group Pty Ltd
Suite 1, 5 Highclere Avenue
Punchbowl NSW 2196

1. Description of Pattern

A Pumplink model MK1 control system (Figure 1) to provide unattended self-service operation for use with Gilbarco model Enterprise fuel dispensers or other compatible (#) approved fuel dispensers. The system includes at least the Pumplink model MK1 console, an Integration Technologies model Enabler 2PCI controller card and an Integration Technologies Distribution module.

1.1 Field of Operation

- The Pumplink model MK1 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 up to 32 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 fuel dispenser and a stored transaction.
- The system operates in a single mode operation, i.e. authorisation of dispensers via attended method only from a single Pumplink model MK1console.
- 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 Pumplink model MK1 system comprises:

(i) Operator Console

The Pumplink model MK1 operator console (Figures 1 and 2) comprises an IBM Thinkcentre M series personal computer or equivalent (*) using a Microsoft Windows XP operating system running Synergy PUMPLink version 5.51 software.

(*) "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.

..../2

The operator console includes the following additional components:

- An Epson M58DB customers display indicator (Figure 2);
- An Epson TM-T88III model M129 receipt printer (Figure 2); and
- An OptiUPS ES-550C model uninterruptible power supply to provide operation under power failure.

(ii) Site Controller

An Integrated Technologies Enabler 2PCI controller card and Enabler version 2.5 software are installed in the operator console computer to provide control and communications interface to the fuel dispensers and the Pumplink MK1 operator console.

A protocol distribution module (Figure 2) enables communication with approved fuel dispensers and connects to the Enabler 2PCI controller card (as described in the documentation of approval NSC S405).

(iii) Additional System Facilities

In addition, the Pumplink model MK1 system may include point of sale facilities (POS) including a programmable keyboard, a cash drawer, 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.

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).

1.3 Checking Facilities

(i) 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 operators screen. At the moment of power failure the system will automatically print a listing of all stored or held sales. The ability to authorise a stored or held sale 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 or if the printer is out of paper, a visual warning is displayed on the operators screen. The ability to authorise a stored or held sale will be prevented until the detected error condition is resolved.

(iii) Customer Display

The system monitors the condition of the customer display and if an error is detected a visual warning is displayed on the operators screen. The ability to authorise a stored or held sale will be prevented until the detected error condition is resolved. A segment checking function to visually inspect the customer display is provided from the 'System Maintenance' option on the main menu.

1.4 Markings

The Pumplink model MK1 operator console is marked with the following data:

Manufacturer's name or mark	……
Manufacturer's designation (model number)	……
Serial number	……
Approval number	S460
Environmental class	Class A

1.5 Verification/Certification Provision

The Pumplink model MK1 operator console has provision for a verification/certification mark to be applied.

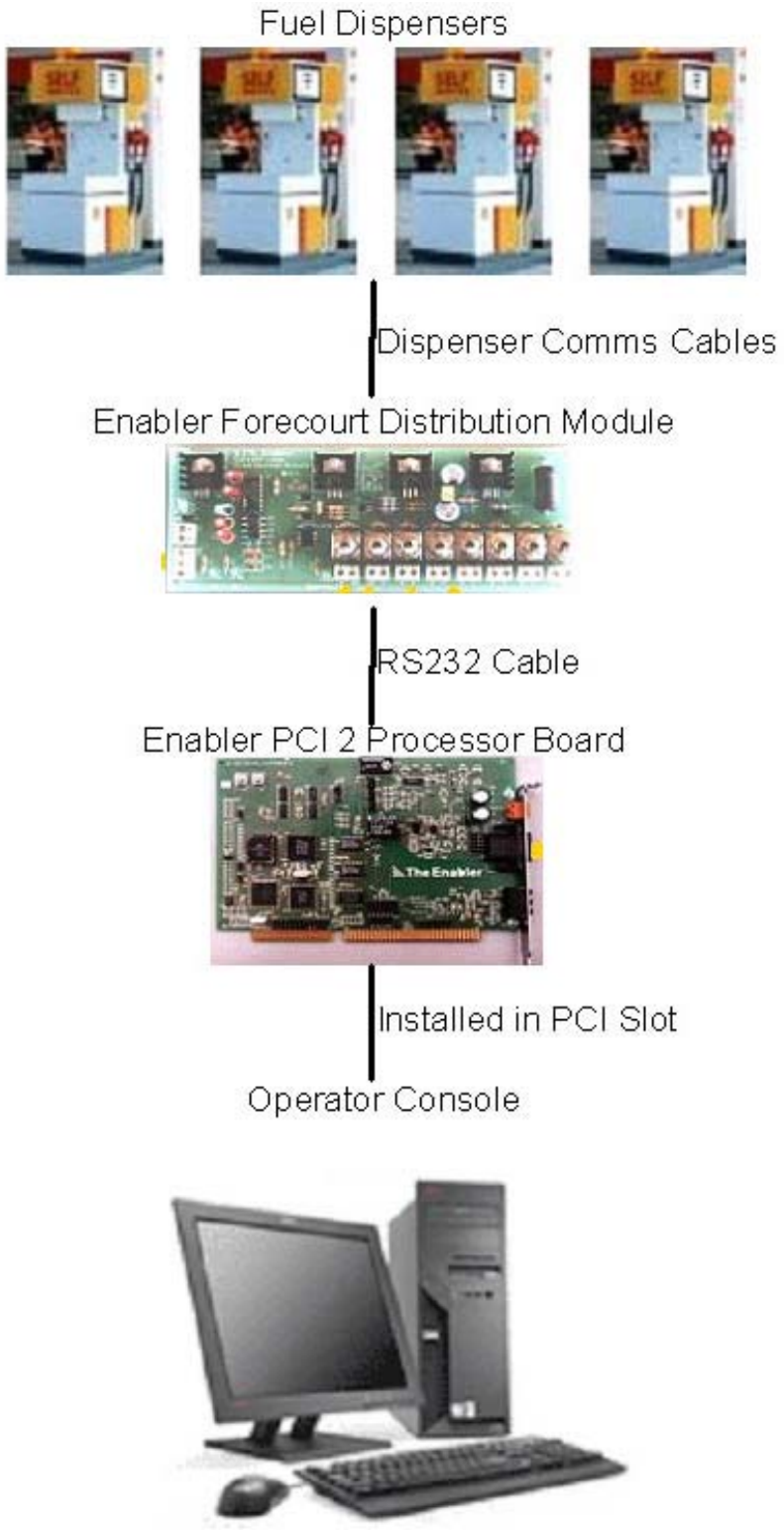
TEST PROCEDURE

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.

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

1. Check the MK1 software version number. The version number is displayed by selecting 'System Details' under the 'System Maintenance' menu option from the main menu of the MK1 console.
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 principal power supply is disconnected an appropriate message is displayed on the MK1 console and stored or held sales cannot be authorised.
6. Remove paper from the receipt printer to check that when the receipt printer is unavailable, an appropriate message is displayed on the MK1 console before authorisation is requested.

FIGURE S460 – 1



Pumplink Model MK1 Control System

FIGURE S460 – 2

IBM Thinkcentre M Series
Personal Computer

Epson M58DB Customers Display

Epson TM-T88III M129 Receipt Printer

Protocol Distribution Module

Enabler 2PCI Controller Card

Pumplink Model MK1 Control System