Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S651

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.

Datafuel Model DF9000 Control System for Fuel Dispensers for Motor Vehicles

submitted by Datafuel Financial Systems Pty Ltd
Unit 22/1 Talavera Road
North Ryde NSW 2113

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 1/12/18, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	15/11/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S651' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S651' 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 Certificate 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*.

Dr A Rawlinson

TECHNICAL SCHEDULE No S651

1. Description of Pattern approved on 15/11/13

A Datafuel model DF9000 control system (Figure 1) to provide unattended self-service operation for use with Gilbarco model T334EG Fleetline Mk4 fuel dispensers or other compatible (#) approved fuel dispensers for registered account customers only.

(#) 'Compatible' is defined to mean that no additions/changes to hardware/software are required for satisfactory operation of the complete system.

1.1 Field of Operation

- The model DF9000 authorisation terminal may provide attended self-service facility for registered account customers only.
- The DF9000 terminal is approved for environmental class N for outdoor use between -10°C and 55°C.
- The system can provide unattended self-service arrangement for approved Gilbarco Model T334EG Fleetline Mk4 fuel dispensers (as described in the documentation of approval NMI 5/6A/214) or other compatible (#) approved fuel dispensers.
- The nominal supply voltage is 240 V AC.

1.2 Features/Functions

The Datafuel model DF9000 terminal (Figure 2) is a standalone card-operated terminal that allows unattended self-service operation of fuel dispensers.

Payment is authorised prior to delivering fuel via a magnetic-stripe card, key reader (proximity type of various OEM) and/or by keyboard entry.

The DF9000 terminal is housed in a weatherproof housing for outdoor use, and includes a magnetic-stripe card or key reader, a keypad, and a liquid-crystal display (LCD), in a single unit.

The DF9000 terminal uses Datafuel version V1.1 software.

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Sealing Provision

No sealing is required.

1.5 Descriptive Markings and Notices

The authorisation terminal is marked with the following data:

Manufacturer's name or mark	……
Manufacturer's designation (model number)	……
Serial number	……
Pattern approval number	NMI S651
Environmental class	Class N

2. Description of Variant 1 approved on 15/11/13

The model DF5000 authorisation terminal (Figure 3) which uses the same internal components as the model DF9000 but in a smaller housing and is limited to two Gilbarco model Fleetline Mk4 T334EG fuel dispensers or other compatible (#) approved fuel dispensers.

The model DF5000 comes in two keyboard configurations – model DF5000CN (Figure 4a) with numeric keyboard (0-9), and model DF5000CA (Figure 4b) with alphanumeric keyboard (A-Z & 0-9).

(#) 'Compatible' is defined to mean that no additions/changes to hardware/software are required for satisfactory operation of the complete system.

TEST PROCEDURE No S651

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 National Instrument Test Procedures.

Maximum Permissible Errors

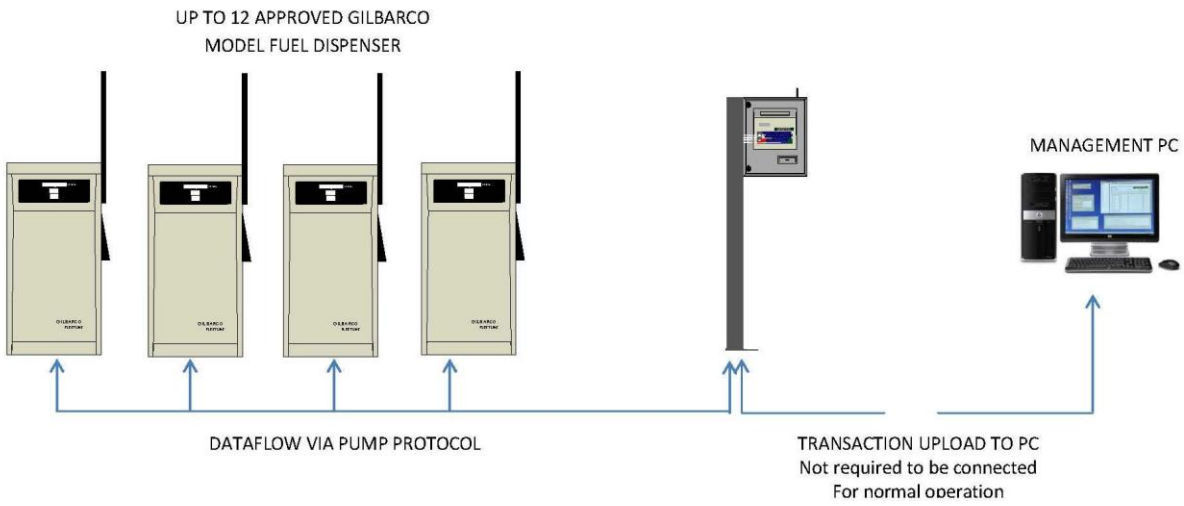
The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

Tests

Points 2 and 3 are required at commissioning, thereafter may be conducted at the discretion of the inspecting officer.

1. Check the DF9000 software version number. The version number is displayed on the front display during the power on initialisation sequence.
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. Authorise a delivery and check that the corresponding number allocated to the fuel dispenser and the delivery details on the fuel dispenser, agree with the values recorded in the PC against the delivery including time/date, Vehicle ID, Litres, $ and price per litre.

FIGURE S651 – 1



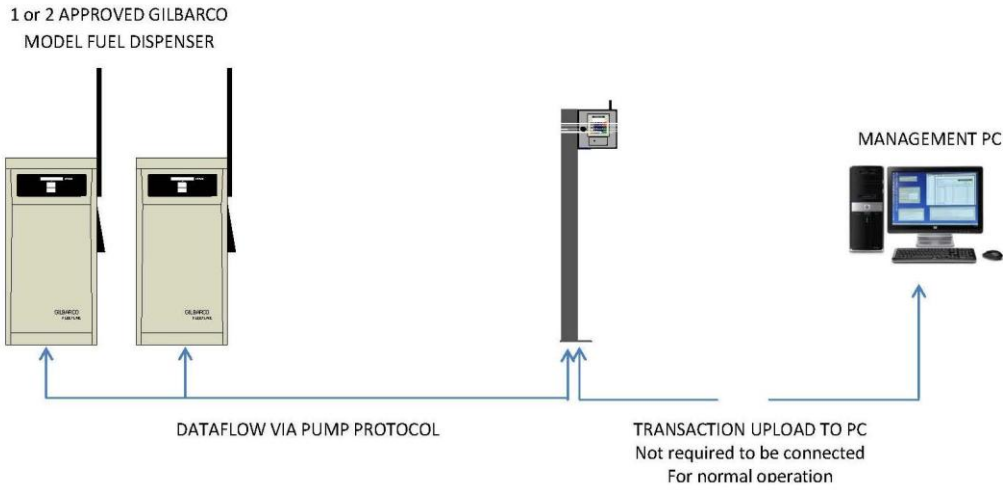
Datafuel Model DF9000 Control System – Typical System Overview

FIGURE S651 – 2

(a) Datafuel Model DF9000 Terminal (with magnetic-stripe swipe card facility)

(b) Datafuel Model DF9000 Terminal (with proximity card facility)

FIGURE S651 – 3



Datafuel Model DF5000 Control System – Typical System Overview

FIGURE S651 – 4

(a) Datafuel Model DF5000CN Terminal (with magnetic-stripe swipe card facility)

(b) Datafuel Model DF5000CA Terminal (with proximity HID card facility)

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