



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation

Supplementary Certificate of Approval No S340A

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

This is to certify that the approval for use for trade granted in respect of the

Compac Model Commander Control System for Fuel Dispensers for Motor
Vehicles

submitted by Compac Industries Ltd
 52 Walls Road
 Penrose Auckland
 NEW ZEALAND

has been cancelled in respect of new instruments as from 1 February 2011.

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

A handwritten signature in black ink, consisting of a series of loops and flourishes, positioned to the right of the signature text.



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Supplementary Certificate of Approval

No S340A

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

Compac Model Commander Control System for Fuel Dispensers for Motor Vehicles

submitted by Compac Industries Ltd
52 Walls Road
Penrose Auckland
NEW ZEALAND.

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 Certificate is issued upon completion of a review of approval number 'NSC S340'.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 March 2009, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S340A' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S340A' in addition to the approval number of the instrument.

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.

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 25 February 2004

- A Compac model Commander control system for use with compatible approved fuel dispensers for motor vehicles.

Technical Schedule No S340A describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S340A dated 28 February 2004
Technical Schedule No S340A dated 28 February 2004
Figures 1 to 4 dated 28 February 2004

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

A handwritten signature in black ink, appearing to be 'J. G. T.', located at the bottom right of the page.

TECHNICAL SCHEDULE No S340A

Pattern: Compac Model Commander Control System for Fuel Dispensers for Motor Vehicles

Submitter: Compac Industries Ltd
52 Walls Road
Penrose Auckland NEW ZEALAND

1. Description of Pattern

The pattern is a Compac model Commander point of sale (POS) control system to provide an attended self-service facility for compatible (#) approved fuel dispensers for motor vehicles.

(#) "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.

1.1 Field of Operation

- The model Commander point of sale (POS) system is approved for environmental class B for indoor use between -10°C and 40°C.
- The system can provide a self-service arrangement for up to 32 compatible approved fuel dispensers fitted with Compac model C4000 indicators (as described in the documentation of approval NSC S377) or other compatible approved indicators.
- The system allows post-payment deliveries only.
- The system can be used in a multi mode operation, allowing the authorisation of fuel dispensers via the Commander attended method or from an unattended self-service control device (e.g. Compac model RAS ('Remote Authorisation Station')).
- The system allows up to two transactions per fuel dispenser, i.e. current sale on the fuel dispenser and a stored transaction.
- The nominal supply voltage is 240 V AC.

1.2 System Description

The Compac model Commander control system (Figure 1) comprises:

(i) A Communicator controller (Figure 2) using software version CA-S-01:70.xx (*), to provide the communication and control of the fuel dispensers and connection to peripheral devices at the operators console and point of sale. A liquid crystal display and a keypad are built into the top of the controller and are used only for configuration and setup options.

(*) Minor revision versions are denoted by 'xx'. Minor revisions shall not impact on the metrological control functions of the software.

- (ii) A Compac model Commander operators console comprising a visual display unit and keypad (Figure 3) which are connected directly to the Communicator controller. Pump status icons indicate the condition of the fuel dispensers (e.g. In use, On Hold or controlled by unattended authorisation device).
- (iii) A Compac model VFD-450E customer display (Figure 4) connected to the Communicator controller at the console location.
- (iv) An uninterruptible power supply unit (UPS) to provide operation under power failure condition. Note: The UPS supplied was a Sola model of 550 VA rating – the submitter should be consulted regarding the acceptability of alternative power supply units, which must also be compatible with clause **1.3 (i)**.

In addition, the Commander system may include point of sale facilities (POS) including a cash drawer, a magnetic card 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.

A receipt printer may also be connected.

1.3 Checking Facilities

The Communicator controller features checking facilities that monitor communications between the peripheral devices and verify transmitted data to the device.

(i) Uninterruptible Power Supply (UPS)

The system monitors the condition of the uninterruptible power supply, and if an error condition is detected (e.g. principal supply failure, battery failure or communication error) the system will disable temporary storage mode.

(ii) Customer Display

The system monitors the condition of the customer display and if an error condition is detected (e.g. disconnection) the system will disable temporary storage mode. A visual segment checking routine is provided to ensure the display is operating correctly.

(iii) Printer

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

(iv) Unattended Authorisation

The system displays a row of black chevrons above the pump icons to indicate control from an unattended self-service device.

1.4 Verification/Certification Provision

The Commander control console has provision for a certification/verification mark to be applied.

1.5 Markings

The Commander control console is marked with the following data, together in one location:

Manufacturer's name or mark
Model number
Serial number
NSC approval number	S340A
Environmental class	Class B

TEST PROCEDURE

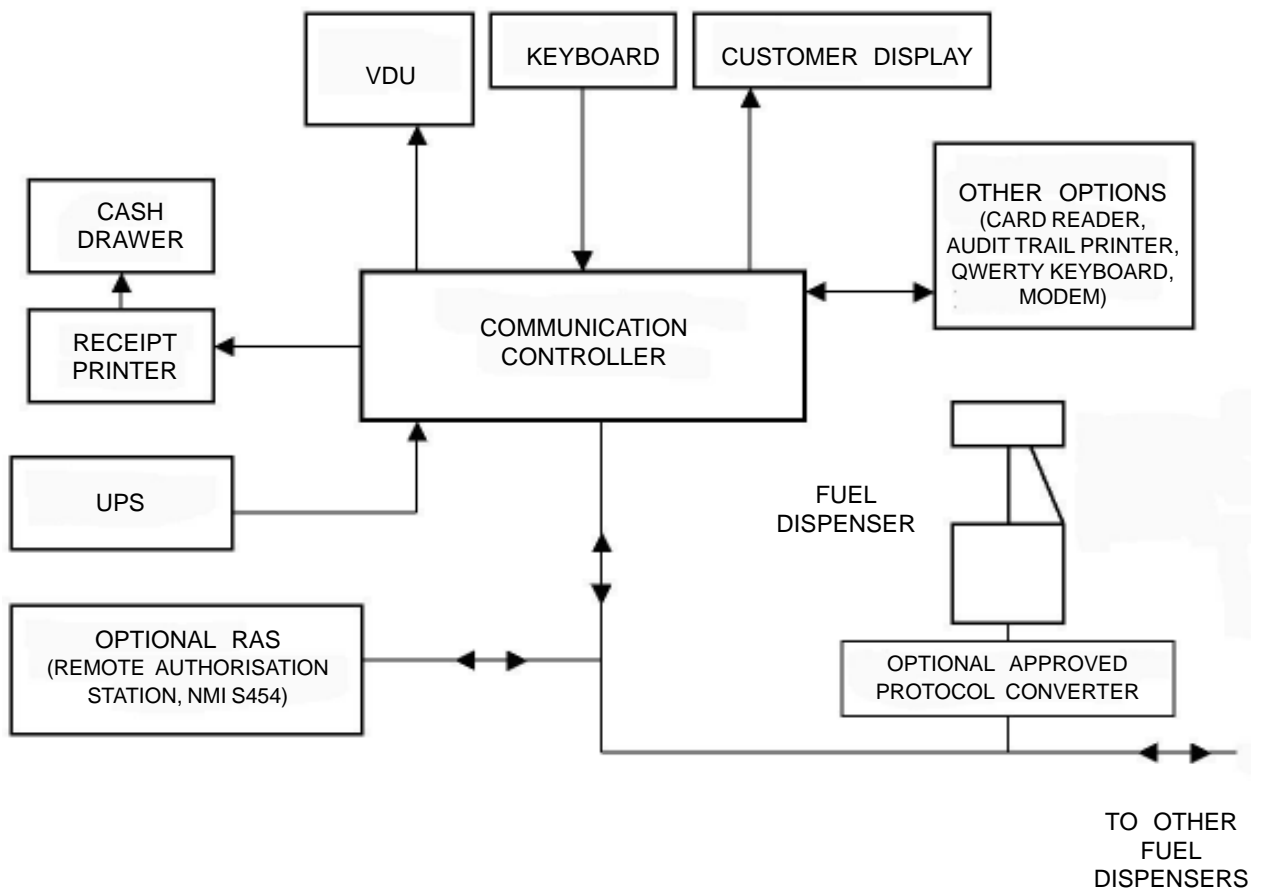
Instruments shall be tested in conjunction with any test specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and accordance with any relevant tests specified in the Uniform Test Procedures.

The maximum permissible errors applicable are those applicable to the fuel dispenser to which the pattern is connected, as stated in the approval documentation for the dispenser.

Points 2-5 are required at commissioning, thereafter may be conducted at the discretion of the inspecting officer.

1. Check the Commander software version number. The version number can be viewed from the top mounted LCD during power-up 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. Check that the control console identifies, displays and prints the correct data for the corresponding number allocated to the fuel dispenser.
4. Check that when the customer display is disconnected from POS console (simulation of fault), the fuel dispenser cannot be authorised for a second delivery unless the transaction for the first delivery has been completed.
5. Check that when principal power supply is disconnected from uninterruptible power supply, the fuel dispenser cannot be authorised for a second delivery unless the transaction for the first delivery has been completed.

FIGURE S340A – 1



Compac Model Commander Control System for Fuel Dispensers for Motor Vehicles

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FIGURE S340A – 2



Compac Model Communicator Controller

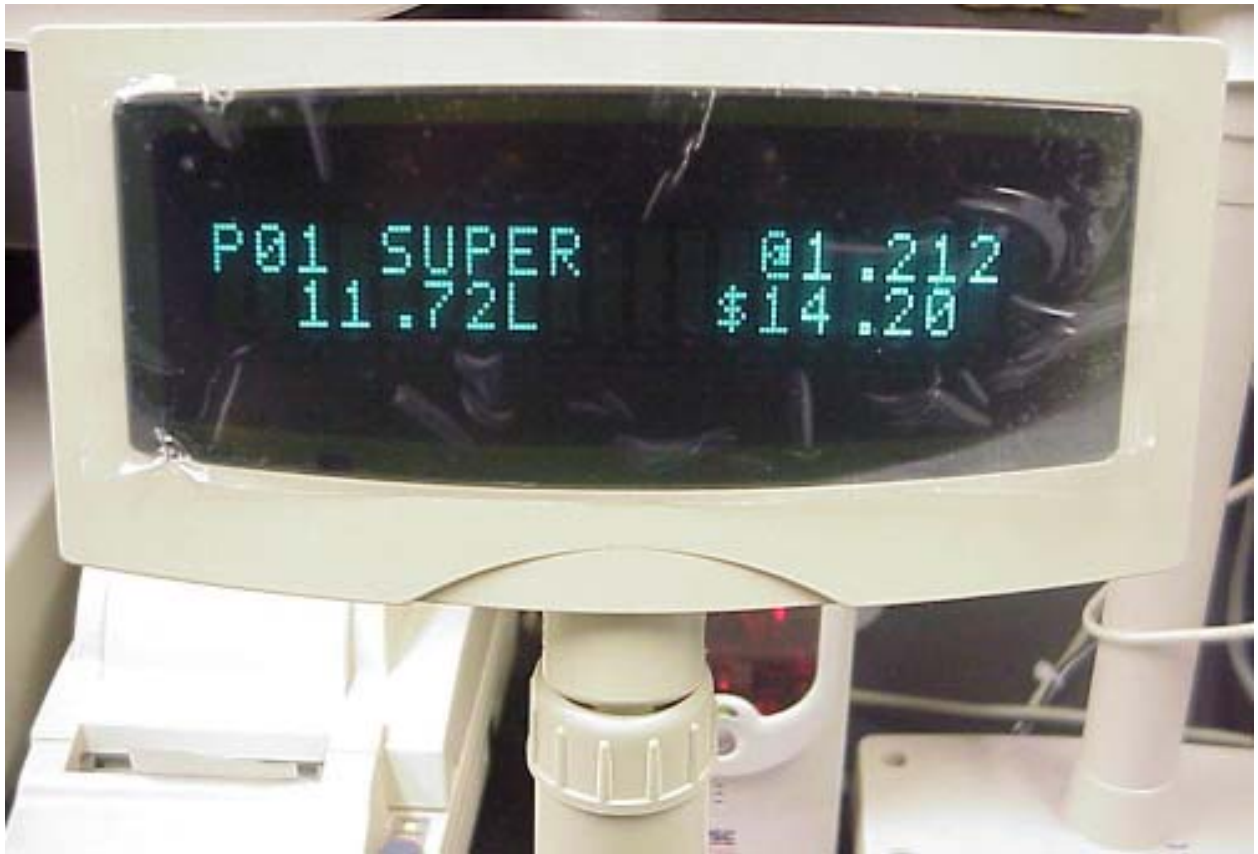
FIGURE S340A – 3



Typical Compac Model Commander Operators Console

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FIGURE S340A - 4



Compac Model VFD-450E Customer Display