Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval
NMI S885

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.

Mogas Model DMGOPT Control System for Fuel Dispensers for Motor Vehicles

submitted by Mogas Regional Pty Ltd
270 The Parade
Kensington SA 5068

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 is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	10/02/26

CONDITIONS OF APPROVAL

General

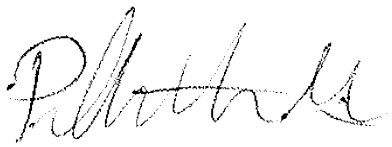
Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S885' and only by persons authorised by the submitter.

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*.



Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S885

1. Description of Pattern approved on 10/02/26

A Mogas Model DMGOPT control system (Figure 1) to provide unattended self-service facility for compatible (#) NMI-approved fuel dispensers for motor vehicles. This variant allows authorisation of fuel by customers without a pre-existing arrangement with the supplier.

Fuel dispensers are controlled by the DMGOPT control system through the ITL enabler (as described in approval NMI S518), or other compatible (#) NMI-approved forecourt controller.

1.1 Field of Operation

- The Mogas model DMGOPT control system is approved for environmental class N for outdoor use between − 10°C and + 55°C.
- The Mogas model DMGOPT control system provides an unattended self-serve arrangement for compatible (#) NMI-approved fuel dispensers.
- The nominal mains power 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 complete system including the correct operation of checking facilities.

1.2 System Description

The Mogas Model DMGOPT control system is a card-operated terminal (Figure 2) and operates as a stand-alone payment terminal housed in a weatherproof enclosure designed for outdoor use (Figure 4).

The control system includes Electronic Funds Transfer (EFT) facilities and transactions are authorised by using a magnetic or smart card reader.

Each DMGOPT payment terminal includes a contactless, chip&pin and/or magnetic stripe card reader with 5 inch touch screen.

1.3 Checking Facilities

(i) Uninterruptible Power Supply

An uninterruptible power supply (UPS) (Figure 3) is included in the DMGOPT terminal to facilitate the conclusion of any deliveries in progress in the event of a power failure. The ability to authorise further transactions will be prevented until any detected error condition of the UPS is resolved.

(ii) Receipt Printer

The system monitors the condition of the receipt printer and provides a visual warning of an error. If the receipt printer is unavailable or out of paper the touch screen of payment terminal will indicate that a receipt will not be available before a user agrees to authorise a fuel dispenser and continue with a fuel delivery.

1.4 Verification Provision

Provision is made for the application of a verification mark.

1.5 Descriptive Markings

Any fuel dispenser fitted with a Mogas model DMGOPT system is marked with the following data (shown below at right) in addition to all other required markings as set out in the approval documentation for the dispenser:

Manufacturer's name or mark	Mogas
Model number	……
Serial number	……
Year of manufacture	……
Pattern approval mark	NMI S885 (#)
Environmental class	N

(#) The characters 'NMI' may be omitted provided that the remaining characters clearly and unambiguously refer to the pattern approval mark

TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instruments (fuel dispensers) to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the National Instrument Test Procedures.

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

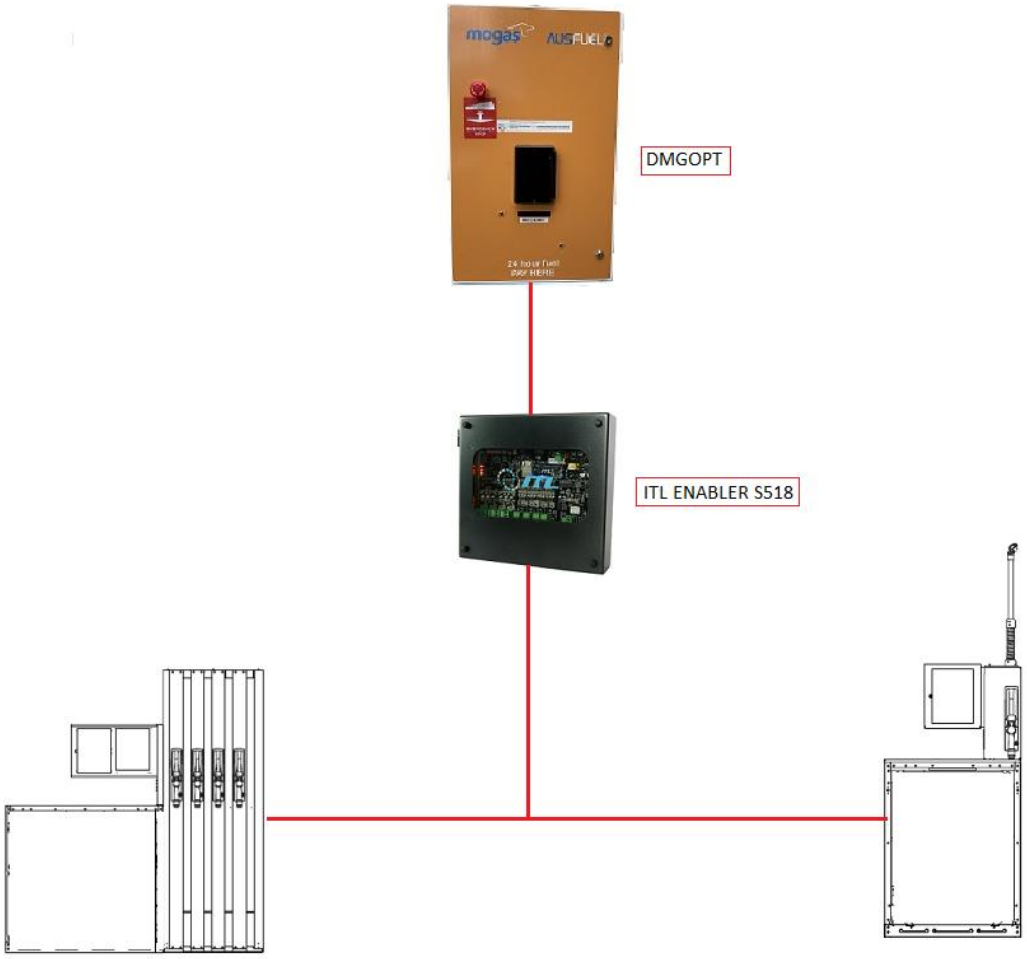
The maximum permissible errors applicable are those applicable to the fuel dispenser to which the instrument approved herein is fitted.

Note: Testing must be carried out on initial installation. Thereafter, it need not be done at every verification/certification of the fuel dispensers but may be done periodically at the discretion of the verifier. Operation with an authorised test card can only be done in the presence of a representative of the submittor.

The Mogas Model DMGOPT terminal shall be tested as follows:

1. Check that the system identifies, displays and prints the correct data for the corresponding number allocated to the fuel dispenser.
2. Authorise a delivery and check that the delivery details on the fuel dispenser agree with the receipt obtained.
3. Remove paper from the receipt printer to check that when the receipt printer is unavailable, a warning is provided before authorisation of a fuel dispenser can occur.

FIGURE S885– 1



Typical Mogas Model DMGOPT Control System Layout

FIGURE S885 – 2

Typical Mogas Model DMGOPT Payment Terminal

FIGURE S885 – 3

PULS Dimension UB10.245 dual output DC UPS

FIGURE S885 – 4

Typical Mogas Model DMGOPT Stand-alone Control System

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