

National Standards Commission



Supplementary Certificate of Approval

No S259

Issued under Regulation 9
of the
National Measurement (Patterns of Instruments) Regulations

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

LPG Engineering Model Mini Console Mk2 Driveway Flowmeter Control Console

submitted by LPG Engineering Pty Ltd
 13/257 Colchester Road
 Kilsyth VIC 3137.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Birch'. The signature is written in a cursive style with a large initial 'J'.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/10/94.

This approval expires in respect of new instruments on 1/10/95.

Instruments purporting to comply with this approval shall be marked NSC No S259 and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S259 in addition to the approval number of the instrument.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the drawings and specifications lodged with the Commission 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 the Commission's Document 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates Nos S1/0 and/or S2/0, as appropriate.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 22/9/89

. An LPG Engineering model Mini Console Mk2 driveway flowmeter control console.

Technical Schedule No S259 describes the pattern.

Variants: approved 17/7/91

1. For use with up to 10 Production Engineering Retron 80 indicators.

2. For use with up to 10 Email Eclipse MVR 79 indicators.

Technical Schedule No S259 Variation No 1 describes Variants 1 and 2.

FILING ADVICE

Supplementary Certificate of Approval No S259 dated 19/11/90 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises.

Supplementary Certificate of Approval No S259 dated 16/9/91
Technical Schedule No S259 dated 19/11/90 (incl. Test Procedure)
Technical Schedule No S259 Variation No 1 dated 16/9/91
Figure 1 dated 19/11/90



National Standards Commission

TECHNICAL SCHEDULE No S259

Pattern: LPG Engineering Model Mini Console Mk2 Driveway Flowmeter Control Console.

Submittor: LPG Engineering Pty Ltd
50 Norcal Road
Nunawading VIC 3131.

1. Description of Pattern

- The pattern is an LPG Engineering model Mini Console Mk2 control console which may be used in a Commission-approved driveway flowmetering system incorporating any driveway flowmeter fitted with a Production Engineering model Retron 80 indicator (as described in NSC approval No S101, and as revised).

The console may be as shown in Figure 1 or in an alternative housing.

1.1 Features

The control console may be used with up to 4 driveway flowmeters in postpay mode only and with other facilities including:

- . a vendor's indicator and a remote purchaser's indicator (Figure 1);
- . a pump status light;
- . a facility for centrally setting the unit price of up to 4 grades of fuel (any one of 4 products per driveway flowmeter);
- . a pump "temporary stop" button;
- . a volume display button; and
- . a mode reset button, which enables the console to be set in one of the following modes:

Mode A - automatic authorisation

Mode H - manual authorisation

Mode S - for service personnel

Mode u - when connected to a point of sale (POS) terminal

1.2 Point of Sale Terminal (POS)

The console incorporates point of sale terminal facilities and these shall not interact with the console in any way which would cause an incorrect indication of the measured volume or price.

1.3 Display Check

A display check is initiated whenever power is applied to the instrument.

1.4 Markings

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

Manufacturer's name or mark	
Model number	
NSC approval number	NSC No S259
Serial number	
Operating temperature range	0°C to 40°C

1.5 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

The maximum permissible errors applicable are those applicable to the system to which the instrument approved herein is fitted, as stated in the approval documentation for the system.

Central Unit Price Setting

- (i) Conduct a price change for one or more grades of fuel; observe that the displays on the corresponding driveway flowmeter blank for one minute after the price change, and that the driveway flowmeter cannot be authorised during this period. The console should display error message "PA".
- (ii) Attempt to change the price of a grade of fuel whilst a delivery is in progress. This should not be possible.



National Standards Commission

TECHNICAL SCHEDULE No S259

VARIATION No 1

Pattern: LPG Engineering Model Mini Console Mk2 Driveway Flowmeter Control Console.

Submittor: LPG Engineering Pty Ltd
13/257 Colchester Road
Kilsyth VIC 3137.

1. Description of Variants

1.1 Variant 1

The LPG Engineering model Mini Console Mk2 control console for use with up to 10 Production Engineering model Retron 80 driveway flowmeter indicators (as described in NSC approval No S101A).

1.2 Variant 2

For use with up to 10 Email Eclipse MVR 79 series driveway flowmeter indicators (as described in NSC approval No S110A).

The instrument may also be known as an Email model Sentinel - 10 control console, or as a model Sentinel - 4 in which case it may only be used with up to 4 Eclipse MVR 79 series indicators.

FIGURE S259 - 1



Mini Console Mk2 and Remote Indicator