



S234
9/5/88

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S234

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

Email Epitronic Mk II Flowmeter Control Console

submitted by Email Limited
 Electronic & Petroleum Equipment Division
 Canterbury Road
 Kilsyth Vic 3137.

CONDITIONS OF APPROVAL

General:

This approval is subject to review on or after 1/2/93.
This approval expires in respect of new instruments on 1/2/94.

Instruments purporting to comply with this approval shall be marked NSC No S234.

This approval may be withdrawn if instruments are constructed other than as described in the drawings and specifications lodged with the Commission.

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

Special:

This instrument may only be used for central unit price setting of driveway flowmeters which have been Commission-approved with that facility.

Signed

Executive Director

Descriptive Advice

Pattern: approved 1/2/88

- Email Epitronic Mk II flowmeter control console for use in a Commission-approved driveway flowmetering system.

Technical Schedule No S234 describes the pattern.

Filing Advice

The documentation for this approval comprises:

Supplementary Certificate of Approval No S234 dated 9/5/88
Technical Schedule No S234 dated 9/5/88
Test Procedure No S234 dated 9/5/88
Figures 1 and 2 dated 9/5/88



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TECHNICAL SCHEDULE No S234

Pattern: Email Epitronic Mk II Flowmeter Control Console.

Submittor: Email Limited
Electronic & Petroleum Equipment Division
Canterbury Road
Kilsyth Vic 3137.

1. Description of Pattern

The pattern is an Email Epitronic Mk II flowmeter control console (Figure 1) for use in a Commission-approved driveway flowmetering system incorporating:

- any Commission-approved Email driveway flowmeter, or
- any Commission-approved driveway flowmeter fitted with an Eclipse model MVR electronic indicator,

with or without the following:

- an Email Multipro-C driveway flowmeter communication convertor, or
- any Commission-approved Email card acceptor.

1.1 Features

The control console may be used with up to 16 driveway flowmeters and with other facilities including:

- a vendor's indicator and a purchaser's indicator (Figure 2);
- a pump status light;
- a key-operated switch for managerial functions;
- a postpay and prepay facility;
- a key-operated switch for postpay and prepay modes;
- a printer for the vendor's record;
- a central unit price setting facility;
- a facility for remotely setting the price of up to 4 grades of fuel;
- four remote price setting schedules per product; and
- a pump stop button and an all pumps emergency stop button.

1.2 Verification Provision

Provision is made for a verification mark to be applied.

1.3 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Model number	
NSC approval number	NSC No S234
Serial number	



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TEST PROCEDURE No S234

The following tests should be conducted in conjunction with any tests specified in the approval documents for the driveway flowmeters to which this instrument is connected and with any relevant tests in the Inspector's Handbook.

1. Postpay Operation

At the console, authorise one or more driveway flowmeters.

- (i) Deliver sufficient liquid to cause the price and volume indicators to move significantly off zero.
- (ii) Stop the pump motor by returning the nozzle to its hang-up position.
- (iii) Remove the nozzle from its hang-up position and check that the computer does not reset to zero and that the pump motor does not start.
- (iv) At the console, check that the price and volume displayed are the same as the price and volume recorded from the driveway flowmeter.
- (v) Repeat steps (i) to (iv) for a number of driveway flowmeters.

2. Prepay Operation

- (i) Conduct a suitable prepay test on one or more driveway flowmeters. Observe that the flowmeter stops at the preset value.
- (ii) For a partially completed delivery, observe that the driveway flowmeter cannot be authorised for at least 3 minutes after the nozzle has been hung up.

A REFUND notice appears on the display after the nozzle is hung up if a prepay delivery is not fully completed.

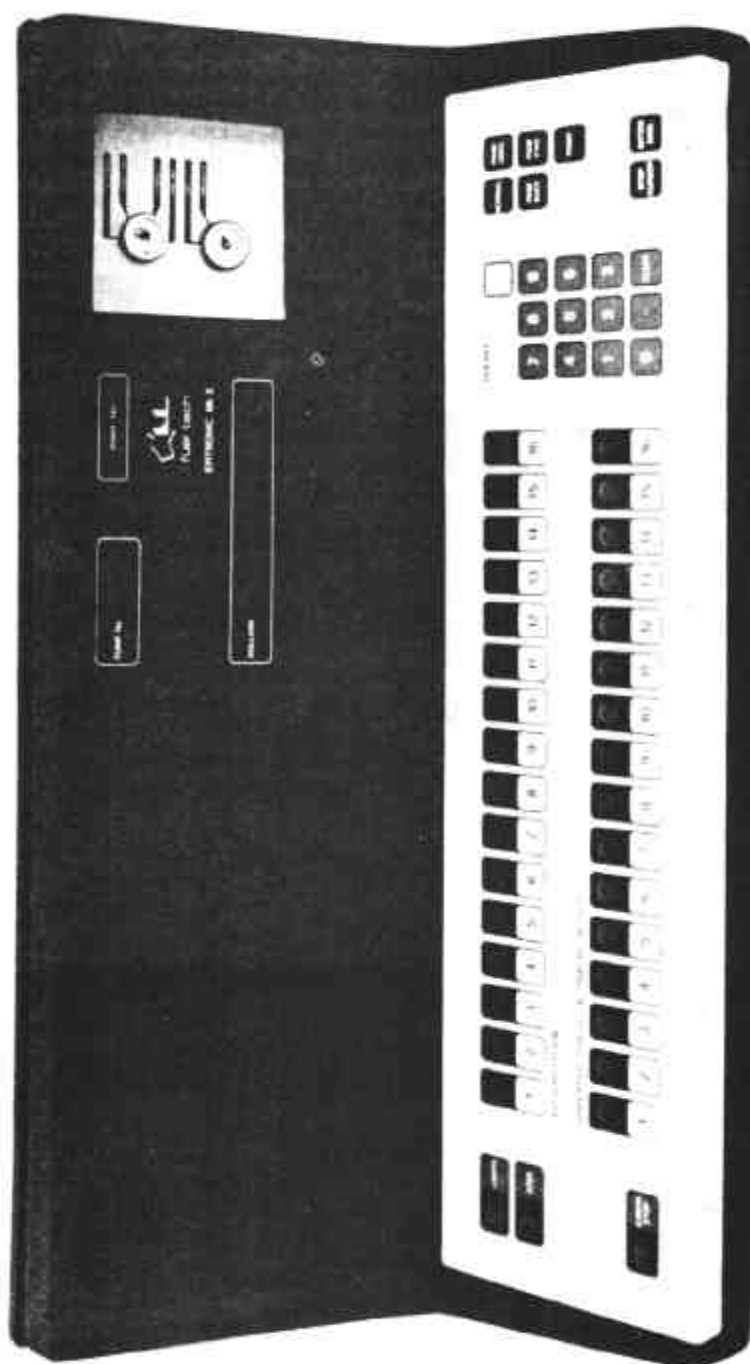
3. Price Setting

- (i) Conduct a price change for one or more grades of fuel. Observe that the displays on the corresponding driveway flowmeter blank for at least 1 minute after the price change, and that the driveway flowmeter cannot be authorised during this period.
- (ii) Attempt to change the price of a grade of fuel whilst a delivery is in progress. This shall not be possible until at least 45 seconds after the delivery has been completed.

4. Segment Check

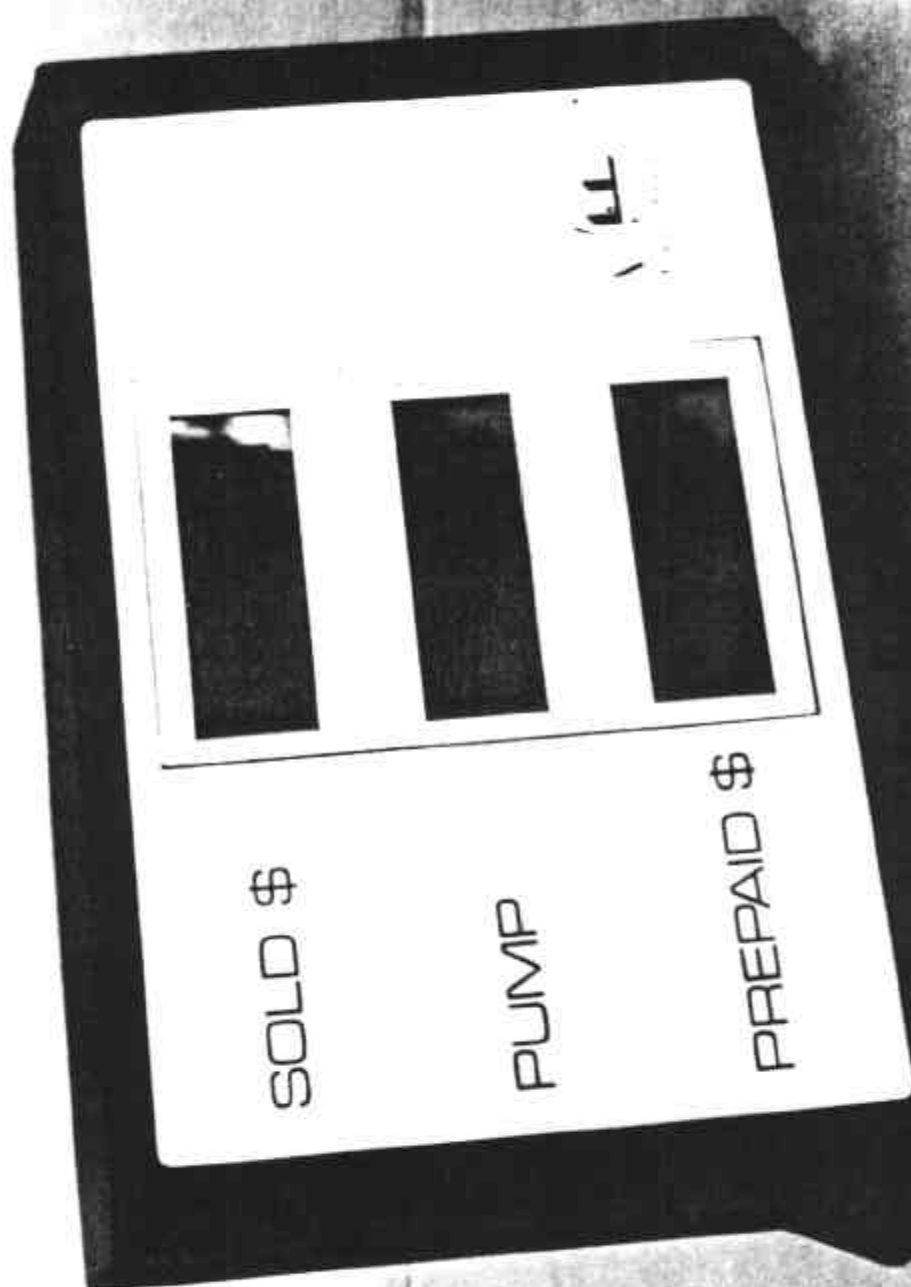
Whenever power is applied, a segment check is initiated for the pump status and authorisation lights, and for the dollar and pump number displays. This does not check the information display.

FIGURE S234 - 1



Email Epitronic Mk II Console

FIGURE S234 - 2



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Purchaser's Indicator