



NATIONAL STANDARDS COMMISSION

S110A
26/5/89

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S110A

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

Eclipse MVR 79 Series Driveway Flowmeter Indicator

submitted by Email Electronics
Cnr Canterbury and Liverpool Roads
Kilsyth VIC 3137.

This Certificate is issued upon completion of a review of NSC approval No S110.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/5/94.
This approval expires in respect of new instruments on 1/5/95.

Instruments purporting to comply with this approval shall be marked NSC No S110A.

This approval may be withdrawn if instruments are constructed other than as described in the drawings and specifications lodged with the Commission.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 Certificate No S1/0.

Signed

Executive Director

Descriptive Advice

Pattern: approved 4/4/89

- An Eclipse MVR 79 series electronic driveway flowmeter indicator.

Variant: approved 4/4/89

1. For use with a compatible Commission-approved console.

Technical Schedule No S110A describes the pattern and variant 1.

Filing Advice

The documentation for this approval comprises:

Supplementary Certificate of Approval No S110A dated 26/5/89
Technical Schedule No S110A dated 26/5/89 (Incl. Test Procedure)
Figures 1 and 2 dated 26/5/89



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TECHNICAL SCHEDULE No S110A

Pattern: Eclipse MVR 79 Series Driveway Flowmeter Indicator.

Submittor: Email Electronics
Cnr Canterbury and Liverpool Roads
Kilsyth VIC 3137.

1. Description of Pattern

An electronic price-computing Indicator (Figure 1) known as the Eclipse model MVR 79R (retrofit) or model MVR 79S (slimline) for use in compatible driveway flowmeters Commission-approved for locally-authorized operation. Both models are available in two versions which are approved to operate at either 4.0 ± 0.2 rev/L or 2.0 ± 0.2 rev/L.

1.1 Indicator Display

The indicator uses 3 separate liquid crystal displays which indicate the price, volume and unit price respectively.

Volume	999.99 L in 0.01 L increments
Unit price	999.9 c/L in 0.1 c increments
Price	\$999.99 in 1 c increments
Volume totaliser	99999 L in 1 L increments

A totalling button or an electro-mechanical volume totaliser may be fitted remotely from the indicator.

1.2 Unit Price Setting

Unit price setting is by means of buttons on the indicator (Figure 2). After a unit price change, the indicator should be reset and any previous transaction details cleared, by removing the nozzle from its hang-up.

1.3 Temperature Compensator

Instruments may be fitted with an electronic temperature compensator. The probe for the compensator is matched to the indicator and the units must be replaced as a pair.

If fitted with temperature compensation, the indicator may be used in compatible driveway flowmeters Commission-approved to dispense liquefied petroleum gas.

1.4 Preset

Instruments may be fitted with a preset facility for use with driveway flowmeters which have been Commission-approved with that facility.

1.5 Markings

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

Manufacturer's name or mark
Model number
Serial number
Approval number S110A

1.6 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variant 1

The Eclipse MVR 79 series Indicators modified for use with a compatible Commission-approved control console for use in remotely-authorized driveway flowmetering systems.

The Indicator may be used for central unit price setting and/or presetting if the console is Commission-approved with either or both of these facilities, as appropriate.

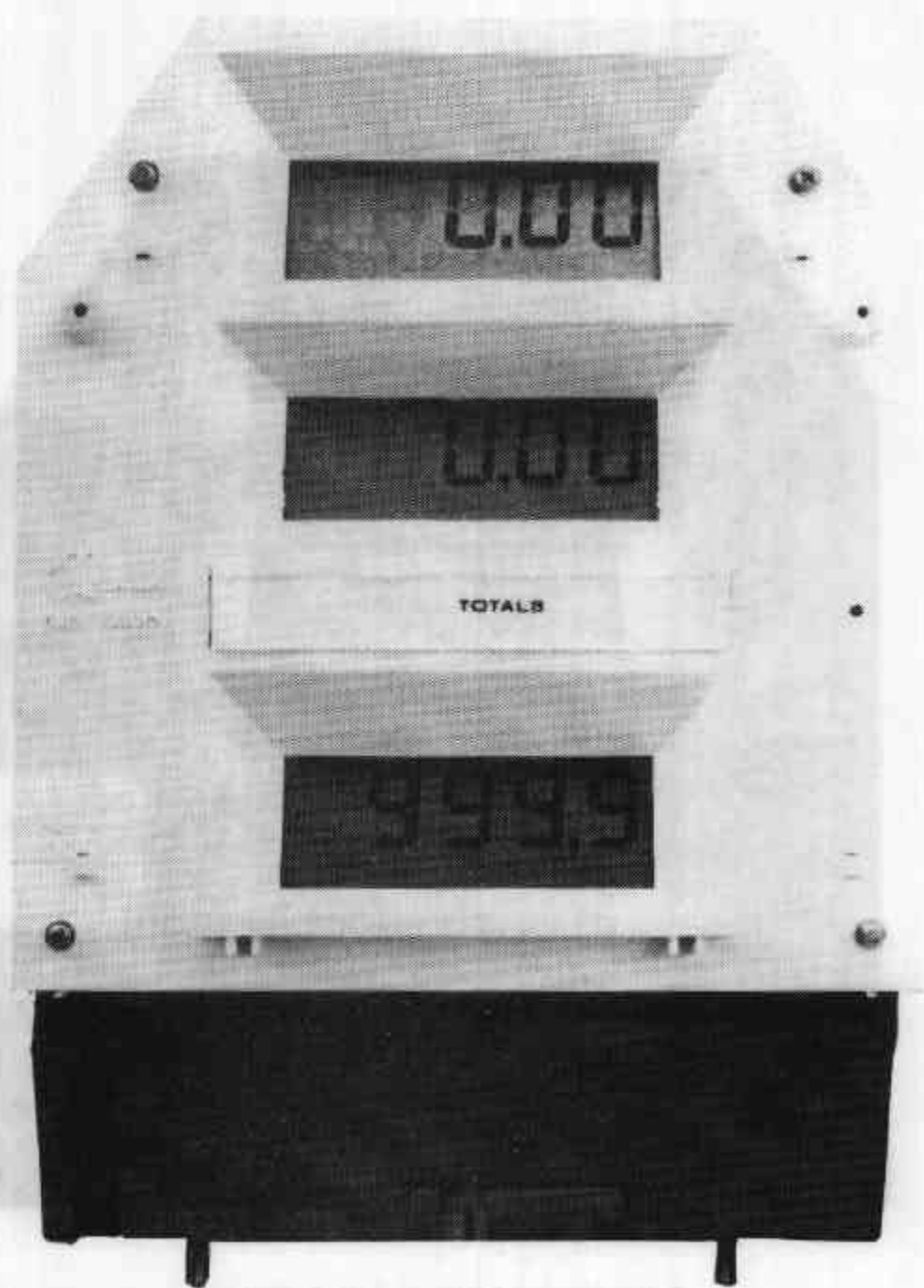
TEST PROCEDURE

Instruments incorporating this indicator should be tested in conjunction with any tests specified in the approval documents for the flowmeters and console (where appropriate), and in accordance with any relevant tests in the Inspector's Handbook.

The results should not exceed the maximum permissible errors given in Document 118, Second Edition, October 1986.

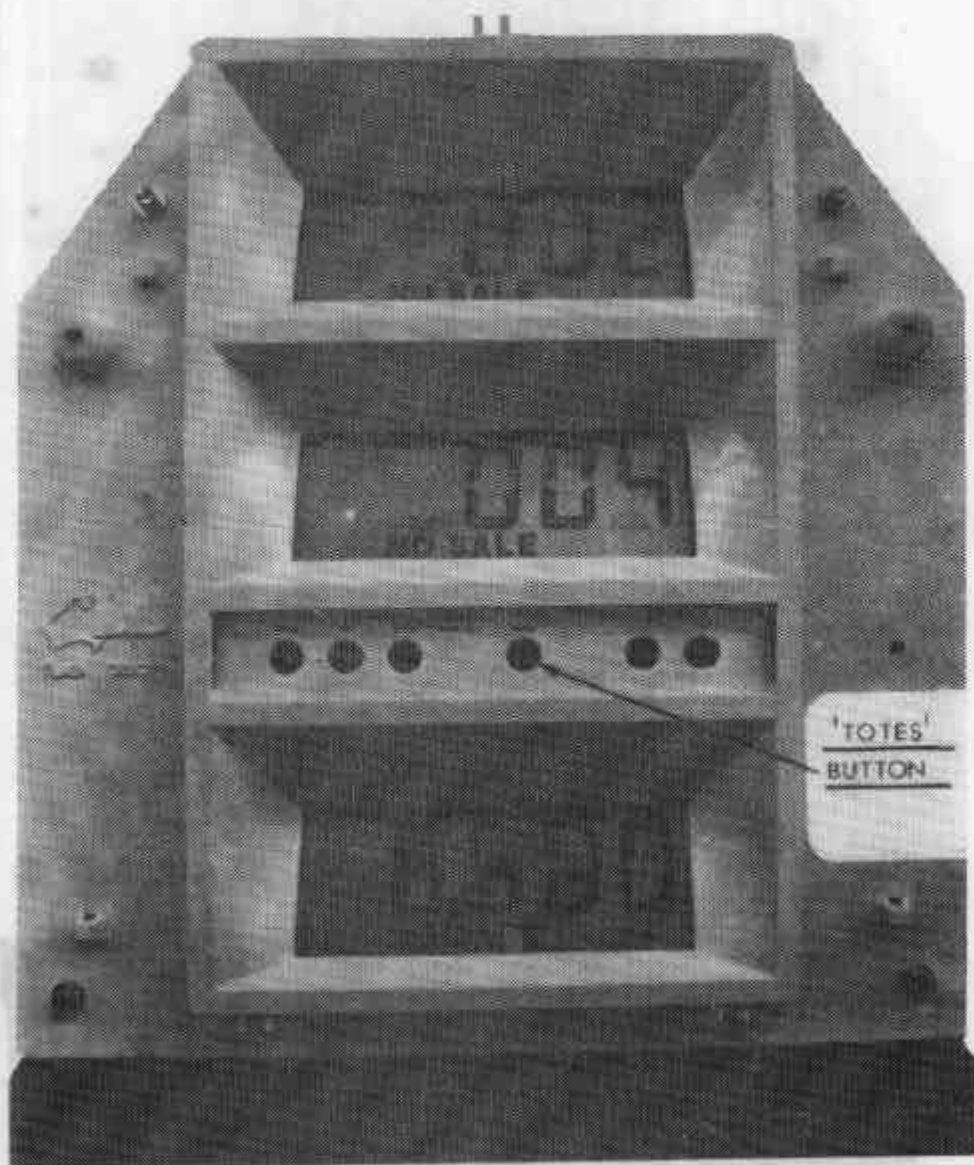
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FIGURE S110A - 1



Eclipse NVR 79 Indicator

FIGURE S110A - 2



Button Panel - Eclipse MWR 79 Indicator