



S213
18/12/87

NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S213

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

Email Model Multipro-C Driveway Flowmeter Communication Convertor

submitted by Email Limited
 Electronic and Petroleum Equipment Division
 Canterbury Road
 Kilsyth Victoria 3137.

CONDITIONS OF APPROVAL

General:

This approval is subject to review on or after 1/10/91.
This approval expires in respect of new instruments on 1/10/92.

Instruments purporting to comply with this approval shall be marked NSC No S213.

This approval may be withdrawn if instruments are constructed other than as described in the drawings and specifications lodged with the Commission.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

The instrument is only approved for installations incorporating the Commission-approved driveway flowmeters and consoles described in this approval.

Signed

Executive Director

Descriptive Advice

Pattern: approved 16/9/86

- Email model Multipro-C driveway flowmeter communication convertor for use with an Email Mk II control console.

Variant: approved 16/9/86

1. Model Multipro-E communication convertor for use with Gilbarco model T11 or T11-5 control consoles.

Technical Schedule No S213 describes the pattern and variant 1.

Supplementary Certificate of Approval No S213 Page 2

Variant: approved 11/9/87

2. Model Multipro-E communication convertor for use with Gilbarco model T12AC control consoles.

Technical Schedule No S213 Variation No 1 describes variant 2.

Filing Advice

Supplementary Certificate of Approval No S213 dated 10/3/87 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Supplementary Certificate of Approval No S213 dated 18/12/87
Technical Schedule No S213 dated 10/3/87
Technical Schedule No S213 Variation No 1 dated 18/12/87
Test Procedure No S213 dated 10/3/87
Figure 1 dated 10/3/87



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TECHNICAL SCHEDULE No S213

Pattern: Email Model Multipro-C Driveway Flowmeter Communication Convertor

Submitter: Email Limited
Electronic and Petroleum Equipment Division
Canterbury Road
Kilsyth Victoria 3137

1. Description of Pattern

The pattern is an Email model Multipro-C communication convertor (Figure 1) for use in Commission-approved driveway flowmeter systems incorporating Gilbarco and Email driveway flowmeters, and an Email DCA and/or Email (L & L) Epitecronic Mk II control console.

1.1 Driveway Flowmeters

Up to 16 of the following driveway flowmeters may be used in any combination:

- Gilbarco Electrolines or other model fitted with a Calcopac indicator approved for use with Gilbarco T11 or T11-5 control consoles.
- Email flowmeters fitted with Eclipse indicators.

1.2 Operation

The Multipro-C allows all normal operation of the above equipment in self-serve mode with the exception of Pre-pay sales. For systems incorporating Gilbarco driveway flowmeters with Calcopac indicators, the unit price change facility is disabled.

1.3 Markings

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

Manufacturer's name or mark	
Serial number	
Model number	
NSC approval number	S213

1.4 Verification Provision

Provision is made for a verification mark to be applied.

2. Description of Variant 1

Model Multipro-E communication convertor for use in Commission-approved driveway flowmeter systems incorporating Gilbarco and Email driveway flowmeters, and a Gilbarco Transac T11 or T11-5 control console.

2.1 Driveway Flowmeters

The same types of driveway flowmeters may be used as for the Multipro-C, with up to 12 flowmeters in any combination.



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TEST PROCEDURE No S213

The following tests should be conducted in conjunction with any tests specified in the approval documents for the driveway flowmeters and control console to which this instrument is connected.

1. Confirm establishment of communication by comparing the unit price set on any driveway flowmeter with the value shown on the console for that flowmeter.
2. Carry out at least two deliveries and confirm that the details displayed on the console agree exactly with the details shown on the flowmeter.
3. On a site with central unit price setting, confirm operation as follows:

With no flowmeters in use, alter the unit price for the grade allocated to the flowmeter concerned. Within 15 seconds the flowmeter should indicate that Price-change mode has commenced. This should continue for at least 60 seconds, after which the flowmeter will show the new unit price.

Return the unit price to that previously in use.



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VARIATION No 1

Pattern: Email Model Multipro-C Driveway Flowmeter Communication
Convertor

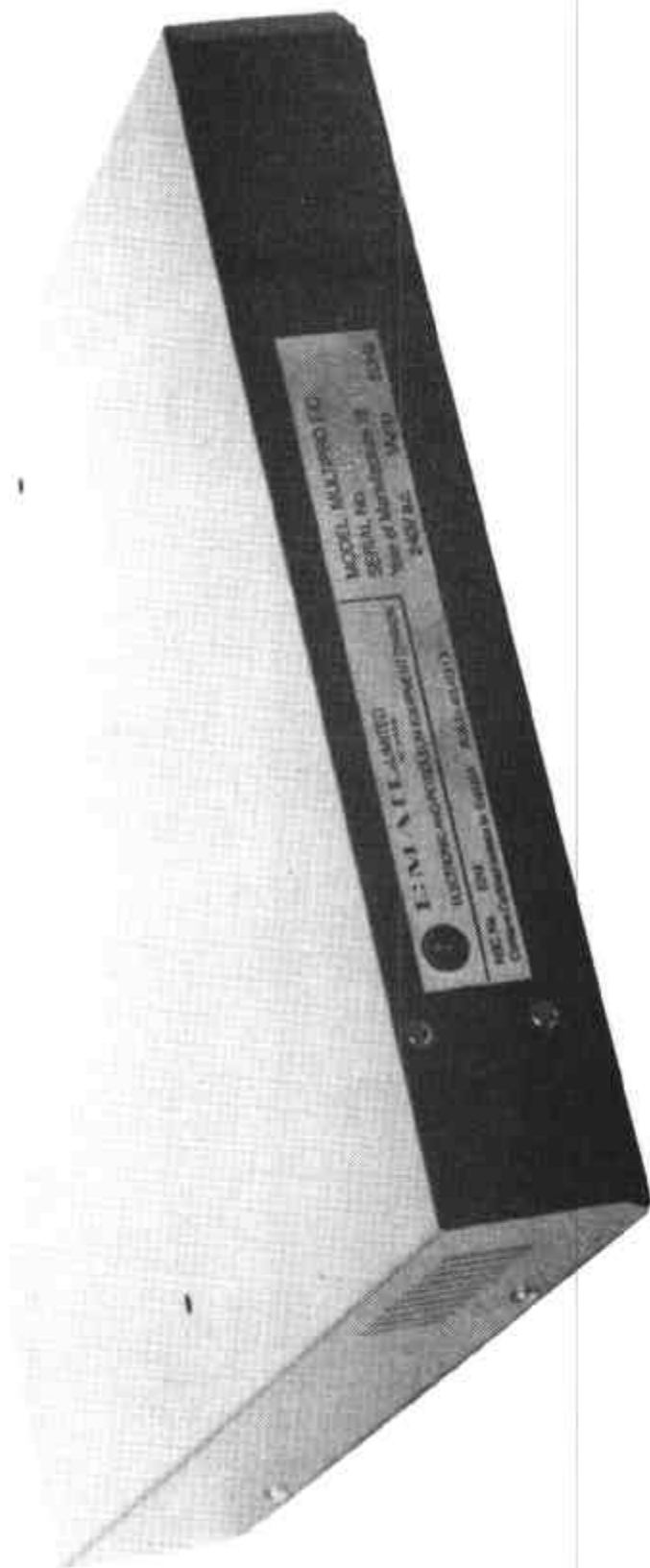
Submittor: Email Limited
Electronic and Petroleum Equipment Division
Canterbury Road
Kilsyth Victoria 3137

1. Description of Variant 2

Model Multipro-E communication convertor for use in Commission-approved driveway flowmeter systems incorporating Gilbarco and Email driveway flowmeters, and a Gilbarco Transac T12AC control console.

The Multipro-E allows all normal operation of the above equipment in self-serve mode excluding for Pre-pay sales. The central unit price setting facility shall be disabled when the console is used with flowmeters fitted with Calcopac indicators.

FIGURE S213 - 1



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Typical Email Multipro Communication Converter