

National Standards Commission



Supplementary Certificate of Approval

No S276

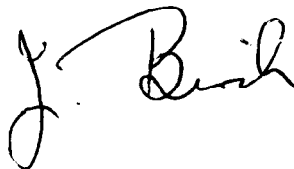
Issued under Regulation 9
of the
National Measurement (Patterns of Instruments) Regulations

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

Email Model Task Driveway Flowmeter Control System

submitted by Email Electronics
Canterbury 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.



CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/3/96.
This approval expires in respect of new instruments on 1/3/97.

Instruments purporting to comply with this approval shall be marked NSC No S276 and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S276 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 15/2/91

- . An Email model Task driveway flowmeter control system for use with certain Email driveway flowmeters and indicators.

Variant: approved 15/2/91

1. For use with certain Gilbarco driveway flowmeters and indicators.

Technical Schedule No S276 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S276 dated 28/6/91
Technical Schedule No S276 dated 28/6/91 (incl. Test Procedure)
Figures 1 to 3 dated 28/6/91



National Standards Commission

TECHNICAL SCHEDULE No S276

Pattern: Email Model Task Driveway Flowmeter Control System.

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

1. Description of Pattern

The pattern is an Email model Task control system which may be used in a flowmetering system incorporating:

- (a) any Commission-approved driveway flowmeters fitted with an Eclipse MVR 79 series electronic indicator;
- (b) any Commission-approved Email multi-product driveway flowmeter; and/or
- (c) any Commission-approved Email Epitronic driveway flowmeter.

1.1 The System

The system (Figures 1 to 3) may be used with up to 32 driveway flowmeters and comprises:

- . a model Task control console (Figure 1);
- . a vendor's VDU indicator (Figure 1);
- . a remote purchaser's indicator (Figure 1);
- . a printer, for the purchaser's receipt; and
- . various indicating and/or printing devices for management purposes (Figure 2).

1.2 Console

The console has various facilities including:

- . a point of sale facility;
- . a function for centrally setting the unit price of up to 9 grades of fuel;
- . a postpay or prepay facility;
- . a pump stop and all pumps emergency stop function; and
- . a dual-memory facility.

1.3 Point of Sale Facility

The console incorporates point of sale (POS) 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.

1.4 Dual-memory Facility

This facility allows two purchasers to operate simultaneously i.e. a second transaction may be carried out while a previous transaction which has not yet been completed is retained in memory.

1.5 Verification Provision

Provision is made for a verification mark to be applied.

1.6 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 S276
Serial number	
Operating (air) temperature range	5°C to 30°C

2. Description of Variant 1

Model Task system for use with any Commission-approved driveway flowmeter fitted with any of the Gilbarco driveway flowmeter indicators listed below:

- Electroline-type indicators
- Highline - T080 series indicators
- Multi-product model T077, T078, T087, or T088 indicators

TEST PROCEDURE

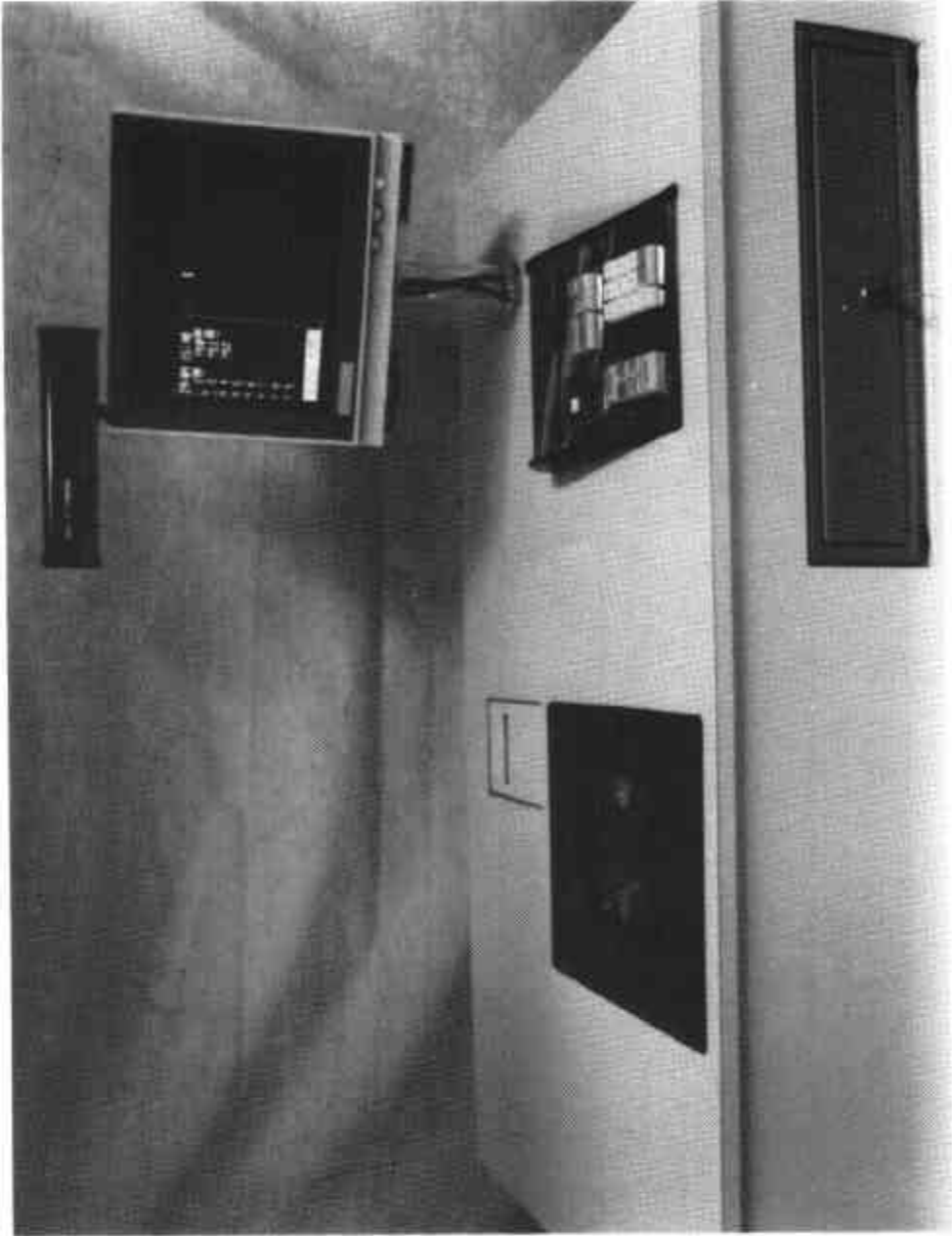
Instruments should be tested in accordance with any tests included in the approval documentation for the driveway flowmeter/s to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

The maximum permissible errors applicable are those applicable to the system to which the pattern is connected, as stated in the approval documentation for the system.

Postpay Mode (including dual-memory test)

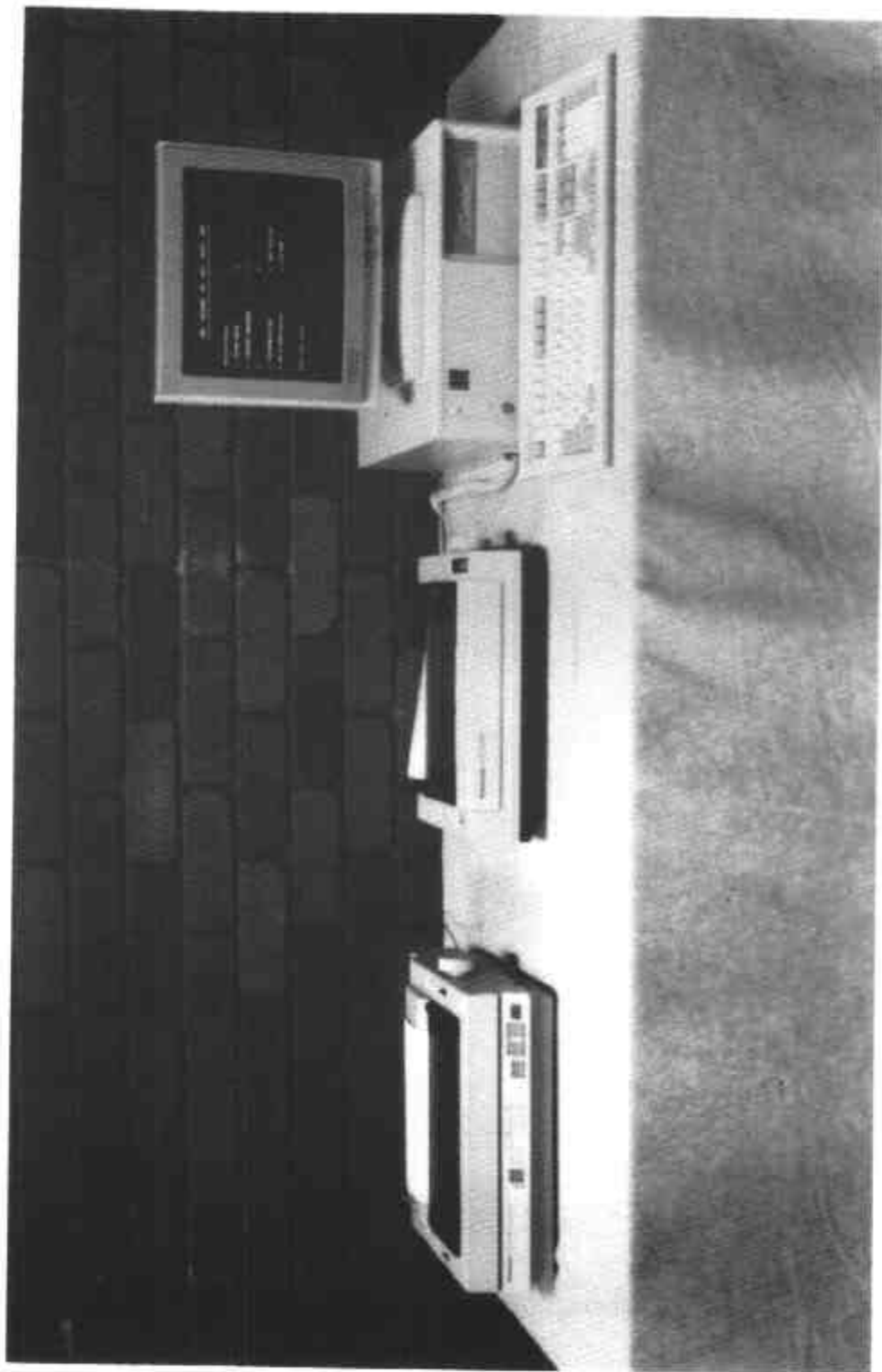
- (i) At any driveway flowmeter, remove a nozzle from its hang-up position, authorise the flowmeter at the console, and then deliver sufficient fuel to cause the price and quantity indicators to move significantly off zero. Stop the flowmeter by returning the nozzle to its hang-up; the details of the transaction will be displayed on the vendor's indicator.
- (ii) Check that the price and volume displayed are the same as the price and volume recorded from the driveway flowmeter.
- (iii) At the same flowmeter, perform another delivery as per (i) above; check that the details of both transactions are displayed consecutively.
- (iv) Attempt to authorise a third delivery from the same flowmeter; this should not be possible.
- (v) Complete the transactions. Check that both memories are now clear.
- (vi) Repeat steps (i) to (v) for a number of driveway flowmeters.

FIGURE S276 - 1



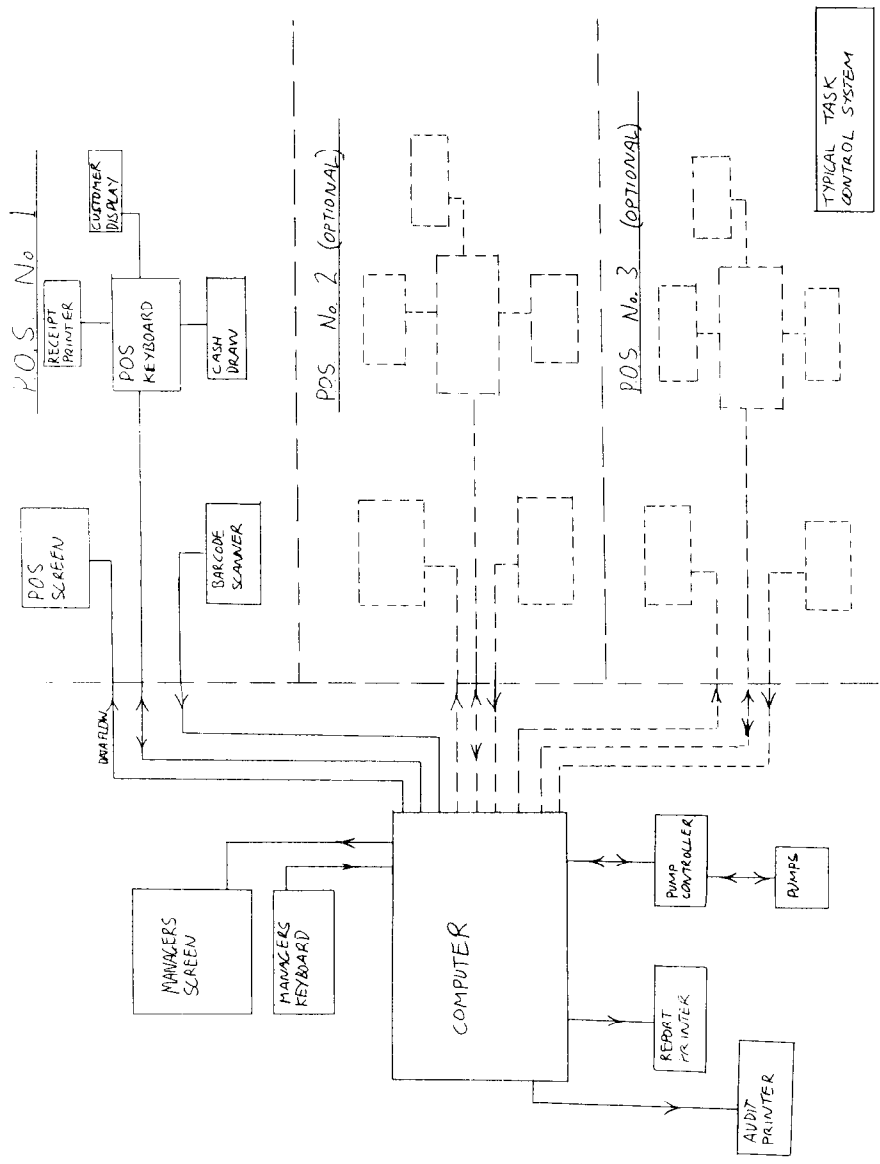
Email Model Task Flowmeter Control System

FIGURE S276 - 2



Typical Management Devices

FIGURE S276 - 3



Typical Task System