



National Standards Commission
Cancellation
Supplementary Certificate of Approval No S246

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

Gilbarco Model T24 Driveway Flowmeter Control Console

submitted by Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde NSW 2113

has been cancelled in respect of new instruments as from 1 May 2000.

Instruments which were verified/certified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

Signed and sealed by a person authorised under Regulation 63 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

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

National Standards Commission



Supplementary Certificate of Approval

No S246

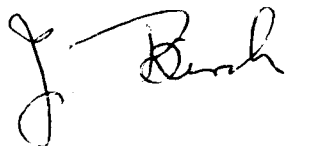
Issued under Regulation 9
of the
National Measurement (Patterns of Instruments) Regulations

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

Gilbarco Model T24 Driveway Flowmeter Control Console

submitted by Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde NSW 2113.

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 1/1/94.

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

Instruments purporting to comply with this approval shall be marked NSC No S246 and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S246 in addition to the approval number of the instrument.

It is the submitter'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.

Special:

This instrument shall only be used for central unit price setting of driveway flowmeters which have been Commission-approved with that facility and which are not fitted with a Gilbarco model Calcopac driveway flowmeter indicator.

DESCRIPTIVE ADVICE

Pattern: approved 7/12/88

. A Gilbarco model T24 driveway flowmeter control console.

Technical Schedule No S246 describes the pattern.

Variation: approved 10/6/91

1. With two console connected in a network.

Technical Schedule No S246 Variation No 1 describes variation 1.

FILING ADVICE

Supplementary Certificate of Approval No S246 dated 30/3/89 is superseded by this Certificate and may be destroyed.

The documentation for this approval now comprises:

Supplementary Certificate of Approval No S246 dated 10/10/91
Technical Schedule No S246 dated 30/3/89 (incl. Test Procedure)
Technical Schedule No S246 Variation No 1 dated 10/10/91 (incl. Test
Procedure)
Figures 1 and 2 dated 30/3/89
Figure 3 dated 10/10/91

TECHNICAL SCHEDULE No S246

Pattern: Gilbarco Model T24 Driveway Flowmeter Control Console.

Submittor: Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde NSW 2113.

1. Description of Pattern

The pattern is a Gilbarco model T24 control console (Figure 1) which may be used in any Commission-approved driveway flowmetering system with up to 24 Gilbarco driveway flowmeters and with other facilities including:

- an electronic funds transfer (EFT) facility;
(Note: The EFT facility is not subject to Pattern Approval)
- a vendor's indicator and a remote purchaser's indicator (Figure 2);
- central unit price setting (refer to the Conditions of Approval);
- a preset facility;
- a dual memory facility; and
- use with up to 8 grades of fuel.

1.1 Communication Interconnection Box

This allows the operator to electrically disconnect any of the driveway flowmeters from the console.

1.2 Dual-memory Facility

This facility allows two purchasers to operate simultaneously.

1.2.1 Operation

The first purchaser carries out the delivery of fuel and the transaction data (including the pump number) is indicated on both the purchaser's and vendor's indicators. After a period of at least 5 seconds, and once the first purchaser has hung-up the nozzle but before the first transaction has been completed, a second purchaser can be authorised for the same flowmeter. The details of the first transaction are stored in the console memory and can be shown on both the vendor's and purchaser's displays.

The details of the first delivery will be displayed whenever the flowmeter SELECT button is pressed. Operation of the CURRENT/STORED button will allow the second transaction to be displayed on the purchaser's display. The status of the transaction is indicated on the vendor's display.

The transactions are completed by using the flowmeter SELECT button and CURRENT/STORED button to display the sale appropriate to the purchaser or both the vendor's and purchaser's indicators and then completing the transaction.

1.2.2 Limitations

Only one transaction may be stored in each memory at any time.

1.3 Markings

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

Manufacturer's name or mark	
Serial number	
Model number	
NSC approval number	S246

1.4 Verification Provision

Provision is made for a verification mark to be applied.



TEST PROCEDURE No S246

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.

1. Postpay Mode (Including dual-memory test)

- i) At the console select and authorise a number of driveway flowmeters and make a delivery.
- ii) The left-hand (CURRENT) status indicator for each flowmeter involved will be flashing slowly and the console indications will repeat the indications of the flowmeter computer by its identification number.
- iii) Authorise each flowmeter by pressing the flowmeter SELECT button and the AUTHORISE button. The left-hand (CURRENT) status indicator for each flowmeter will now glow steadily indicating that the flowmeter has been reauthorised and the right-hand (STORED) status indicator will flash slowly.
- iv) For each flowmeter reauthorised in (iii):
 - 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; and
 - record the details of the delivery.
- v) At the console, the CURRENT status indicators of the flowmeters involved will be flashing slowly. Observe that the indications from the first transaction (i) are still available as well as indications from the second transaction (iv). Use the CURRENT/STORED button.
- vi) Using the PUMP SELECT buttons, observe that as each flowmeter is selected, the indications observed in (i) are displayed and are repeated on the purchaser's indicator.
- vii) Using the CURRENT/STORED button, observe that the indications from the second transaction for that flowmeter are displayed and are repeated on the purchaser's indicator.
- viii) For one of the flowmeters involved, complete the stored transaction by pressing the PUMP SELECT button and then the PAID button. Observe that the status indicator for the stored transaction is now off.
- ix) Complete the other transaction for the flowmeter in (viii) by pressing the same PUMP SELECT button and then the PAID button. The status indicator will then be off.

2. Prepay Mode

The operation in prepay mode is very similar to that described in 1. above.

- i) At the console, authorise a flowmeter by pressing the flowmeter SELECT button and the AUTHORISE button.
- ii) While the delivery is continuing, attempt to authorise a prepaid transaction (by selecting the flowmeter, entering a cash value via the keyboard, and pressing the PAID button). This should not be possible.
- iii) Complete the first delivery and return the nozzle to its hang-up position. The CURRENT status indicator will now flash slowly.
- iv) Authorise a prepaid transaction for the flowmeter as in (ii) in the second memory using the CURRENT/STORED button. The console will accept the authorisation. The CURRENT status indicator will glow steadily. Check that the preset value is showing on the console and on the flowmeter preset display panel.
- v) Lift the nozzle and deliver fuel. Observe that the flowmeter stops on the preset value, and that when the nozzle is returned to its hang-up position, no amount is due at the console for this transaction.
- vi) Complete the first transaction as in paragraph 1(viii).
- vii) Repeat steps 2(i) to 2(iv) for another driveway flowmeter.
- viii) Lift the nozzle and deliver fuel but return the nozzle to its hang-up before the prepaid value is reached. Observe that the status indicator is flashing slowly indicating incomplete transactions and that the details of each transaction are displayed.
- ix) Complete the transactions.

Try to reauthorise the flowmeter. This should not be possible for at least 3 minutes from the time that the nozzle is hung-up on the flowmeter used for the prepaid transaction.
- (x) If there is a driveway flowmeter on site to which a preset panel and indicator are not fitted, attempt to authorise a prepay delivery at the console. This should not be possible.



National Standards Commission

TECHNICAL SCHEDULE No S246

VARIATION No 1

Pattern: Gilbarco Model T24 Driveway Flowmeter Control Console.

Submittor: Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde NSW 2113.

1. Description of Variant 1

Two model T24 consoles may be connected in a network (Figure 3) which includes up to 24 driveway flowmeters. The following operations may be processed by either console:

- . flowmeter status and authorisation;
 - . sales transactions; (*)
 - . central unit price setting (refer to the Conditions of Approval);
 - . pump stop and emergency stop; and
 - . management functions.
- (*) Preset transactions can only be initiated from one of the consoles (marked "CONSOLE #1" in Figure 3); either console may then be used to monitor and to complete the transaction.

Either console may be set to management mode leaving the other console to remain in normal operation.

TEST PROCEDURE (for Variant 1)

Systems which include two model T24 consoles (Variant 1) should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

Instruments should also be tested in accordance with TEST PROCEDURE No S246 dated 30/3/89 for the pattern, and as amended below:

1. Postpay Test (Variant 1)

- (a) Conduct test 1. Postpay Mode performing steps (v), (vi) and (vii) for both consoles.
- (b) In step (ix), observe that the status indicator is not illuminated, i.e. is not lit on either console.

2. Prepay Test (Variant 1)

At step (iv), for the same flowmeter, attempt to authorise a prepaid transaction at the second console; this should not be possible.

S246
10 July 1995

National Standards Commission



NOTIFICATION OF CHANGE
CERTIFICATE OF APPROVAL No S246
CHANGE No 1

The following change is made to the approval documentation for the

Gilbarco Model T24 Driveway Flowmeter Control Console

submitted by Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde NSW 2113.

In Supplementary Certificate of Approval No S246 dated 10 October 1991, the Condition of Approval referring to the expiry of the approval should be amended to now read:

"This approval expires in respect of new instruments on 1 October 1995."

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

A handwritten signature in black ink, appearing to read 'J. Burch'.

National Standards Commission



NOTIFICATION OF CHANGE

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S246

CHANGE No 2

The following change is made to the approval documentation for the

Gilbarco Model T24 Driveway Flowmeter Control Console

submitted by Gilbarco Aust. Ltd
12-38 Talavera Road
North Ryde NSW 2113.

In Supplementary Certificate of Approval No S246 dated 10 October 1991, the Condition of Approval referring to the expiry of the approval should be amended to now read:

"This approval expires in respect of new instruments on 1 October 1996."

NOTE: This was previously amended by Notification of Change No 1 dated 10 July 1995.

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

A handwritten signature in black ink, appearing to read 'J. W. Gray', written in a cursive style.

National Standards Commission



Notification of Change Supplementary Certificate of Approval No S246 Change No 3

The following changes are made to the approval documentation for the

Gilbarco Model T24 Driveway Flowmeter Control Console

submitted by Gilbarco Aust. Ltd
 12-38 Talavera Road
 North Ryde NSW 2113.

In Supplementary Certificate of Approval No S246 dated 10 October 1991;

1. The Condition of Approval referring to the review of the approval should be amended to read:

This approval becomes subject to review on 1 January 1994, and then every 5 years thereafter.

2. The Condition of Approval referring to the expiry of the approval should be deleted.

NOTE: This was previously amended by Notifications of Change Nos 1 and 2.

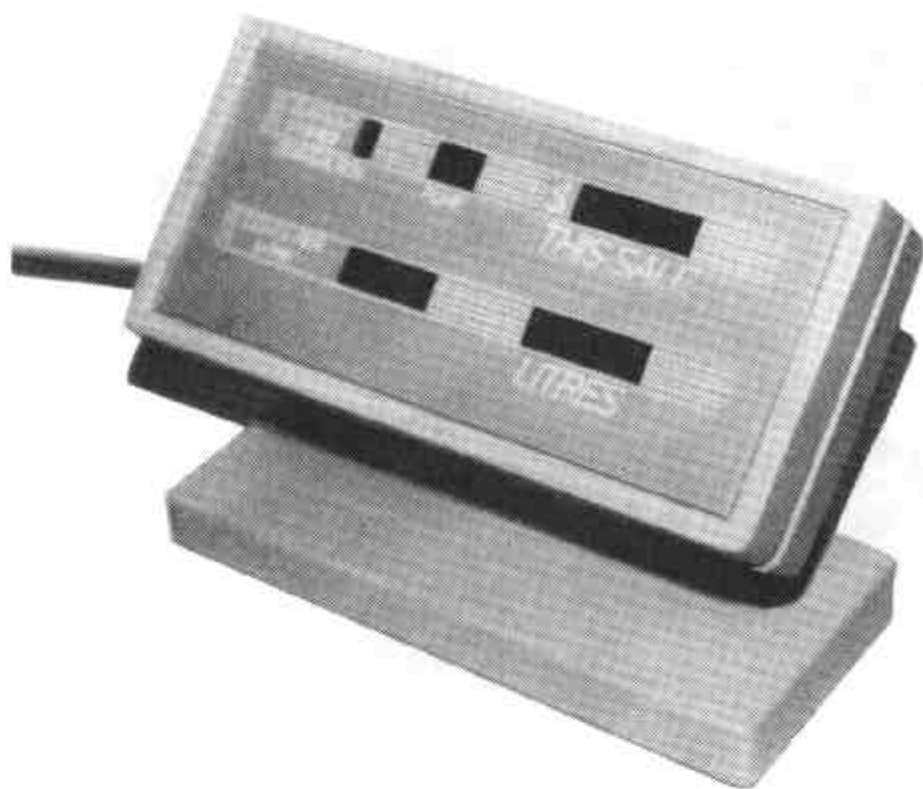
Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

FIGURE S246 - 1



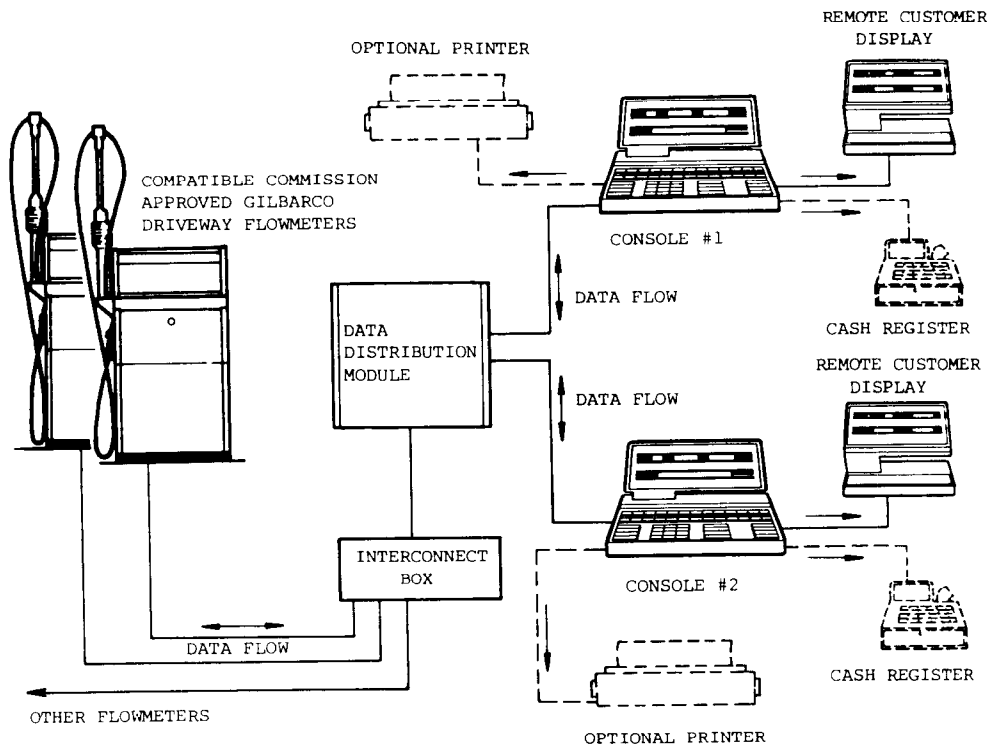
Gilbarco T24 Console

FIGURE S246 - 2



Purchaser's Indicator

FIGURE S246 - 3



Typical Gilbarco T24 Console Network