

## National Standards Commission



### Supplementary Certificate of Approval

**No S198A**

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 Datapump Driveway Flowmeter Control System

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

This Certificate is issued upon completion of a review of NSC approval No S198.

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.

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

### CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/10/96.

This approval expires in respect of new instruments on 1/10/97.

Instruments purporting to comply with this approval shall be marked NSC No S198A and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S198A 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:

Instruments are only approved for installations incorporating the Commission-approved driveway flowmeter systems described in this approval.

### DESCRIPTIVE ADVICE

**Pattern:** approved 5/9/91

. Gilbarco model Datapump card-operated driveway flowmeter control system.

**Variants:** approved 5/9/91

1. With a model T084F manually-operated card-acceptor terminal.
2. With a model T084M controller which may control up to 3 card-acceptor terminals.

**Variants:** approved 5/9/91

3. With a model T084T controller and one or more T084S card-acceptor terminals.
4. With a model T084L or T084N controller and one or more T084B or T084F card-acceptor terminals.
5. With a model T084U controller.

Technical Schedule No S198 describes the pattern and variants 1 to 5.

#### FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S198A dated 22/11/91  
Technical Schedule No S198A dated 22/11/91 (incl. Test Procedure)  
Figures 1 to 8 dated 22/11/91



## National Standards Commission

### TECHNICAL SCHEDULE No S198A

**Pattern:** Gilbarco Model Datapump Driveway Flowmeter Control System.

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

#### 1. Description of Pattern

The pattern is a Gilbarco model Datapump card-operated driveway flowmeter control system which allows account transactions to be made locally using authorised cards having controlled distribution i.e. cards issued to selected users.

The system comprises:

- . A Datapump model T084B card-acceptor terminal (Figure 1).
- . A Datapump model T084P controller (Figure 2).
- . Up to 4 compatible Commission-approved Gilbarco driveway flowmeters or compatible Commission-approved driveway flowmeters fitted with Commission-approved Calcopac indicators.
- . A communication interconnection box.

Figure 3 shows the interconnection of the major components for the pattern and variant 1.

#### 1.1 Datapump Card-acceptor Terminal (Figure 1)

The model T084B terminal (Island Card Reader or ICR) has the following features:

- . An alphanumeric display used to generate prompts to guide the user through data entry functions.
- . A keyboard with 10 numeric keys and other special function keys e.g. CLEAR, CLEAR LAST ENTRY, ENTER, YES or NO.
- . A motorised card-acceptor into which the authorised card is inserted.
- . A ticket printer.

Access to the managerial and service functions are available only to authorised personnel and are described in the manuals.

All transaction data is recorded on the purchaser's receipt which is issued by re-inserting the card at the end of a delivery. Data for up to the last 8 receipts is stored within the system.

## **1.2 Datapump Controller**

The model T084P controller (Figure 2) controls the system including the ICR and may be interfaced with up to 4 compatible Commission-approved Gilbarco driveway flowmeters or compatible Commission-approved driveway flowmeters fitted with Commission-approved Calcopac indicators.

The controller may be located remotely, or with the ICR, and has an internal journal printer to record all transactions on the Datapump system.

## **1.3 Communication Interconnection Box**

This allows the operator to disconnect any of the driveway flowmeters from the controller. The time of connection or disconnection is recorded on the journal roll.

## **1.4 Operating Procedure**

- (a) Insert authorised card or cards into the ICR.
- (b) Enter personal identification number (PIN) (optional).
- (c) Enter the driveway flowmeter number.
- (d) The card is then returned and a delivery may be made.
- (e) After nozzle hang-up, the internal record is printed and a ticket is made available by re-inserting the card.

NOTE: The authorised card(s) may contain restrictions and special conditions e.g. limits on the type and/or amount of fuel that a user may obtain, which may vary with the type of card and account transaction utilised.

## **1.5 Verification/Certification Provision**

Provision is made for a verification/certification mark to be applied on the card terminal, and on the controller.

## 1.6 Markings

The card terminal and the controller are marked with the following data:

Manufacturer's name or mark	
Serial number	
Model name or number	
NSC approval number	NSC No S198A

In addition, the card terminal shall indicate to the user that it is necessary to re-insert the card, after nozzle hang-up, to obtain a ticket.

## 2. Description of Variants

### 2.1 Variant 1

With a manually-operated card-acceptor terminal (similar to the unit shown in Figure 7, but with only 1 alphanumeric keyboard) in which case the ICR is known as a model T084F.

Figure 3 shows the interconnection of the major components for this variant.

### 2.2 Variant 2

With a model T084M controller (similar to the unit shown in Figure 2) interfaced with up to 12 compatible Commission-approved Gilbarco driveway flowmeters or compatible Commission-approved driveway flowmeters fitted with Commission-approved Calcopac indicators.

The T084M controller may be used with up to 3 model T084B or T084F card-acceptor terminals.

Figure 4 shows the interconnection of the major components for this variant.

### 2.3 Variant 3

With a model T084T controller (similar to the unit shown in Figure 2) connected to one or more T084S card-acceptor terminals (Figure 6) with manually-operated swipe card reader, two alphanumeric keyboards and also with electronic funds transfer (EFT) facility.

Figures 6 and 7 show the interconnection of the major components for this variant.

Variant 3 may be used with:

- . Compatible Commission-approved Gilbarco driveway flowmeters; or
- . Compatible Commission-approved driveway flowmeters fitted with Commission-approved Calcopac indicators; or
- . Any Commission-approved Gilbarco control console in a Commission-approved driveway flowmeter control system, in which case the instrument permits remote authorisation of any of the driveway flowmeters controlled by the console, with the number and type of driveway flowmeters limited by the capability of the console to which this variant is connected.

#### **2.4 Variant 4**

With a model T084L or T084N controller connected to one or more T084B or T084F card-acceptor terminals (Figure 1) with any Commission-approved Gilbarco control console in a Commission-approved driveway flowmeter control system, in which case the instrument permits remote authorisation of any of the driveway flowmeters controlled by the console, with the number and type of driveway flowmeters limited by the capability of the console to which this variant is connected.

Figure 8 shows the interconnection of the major components for this variant.

#### **2.5 Variant 5**

With a model T084U controller (similar to the unit shown in Figure 2) connected to up to 3 T084B or T084F card-acceptor terminals (Figure 1), interfaced with up to 12 compatible Commission-approved Gilbarco driveway flowmeters or compatible Commission-approved driveway flowmeters fitted with Commission-approved Calcopac indicators.

Figure 4 shows the interconnection of the major components for this variant.

## TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instrument 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 instrument approved herein is fitted, as stated in the approval documentation for the system.

1. Check that the allocated driveway flowmeters controlled by the Datapump card terminal or by a control console (where approved) are identified.
2. Complete at least two deliveries and check that the vendor's and the purchaser's records of transaction are identical to that of the display on the driveway flowmeter.

NOTE: In the event of power failure, the details printed on the ticket may differ from those displayed on the driveway flowmeter and in addition, the ticket shall be printed with the following:

POWER FAILURE.  
RECEIPT IS CORRECT  
RECORD OF TRANSACTION

3. For Variant 3;
  - (a) Turn the T084T controller's keyswitch to the MANAGER position. Select function '9' on the thumbwheel, and press the test button. Turn the keyswitch back to the NORMAL position.

- (b) Swipe the RETAILER card through the ICR card reader.

NOTE: The card must be swiped within 60 seconds of pressing the test button and the ICR display showing PLEASE SWIPE YOUR CARD THROUGH READER, or the card will be rejected. If the time limit is exceeded, repeat steps (a) and (b).

- (c) Follow instructions on the ICR to make a delivery of fuel. Any personal identification number (PIN) or account type may be used.
  - (d) Check that the vendor's and the purchaser's records of transaction are identical to that of the display on the driveway flowmeter.

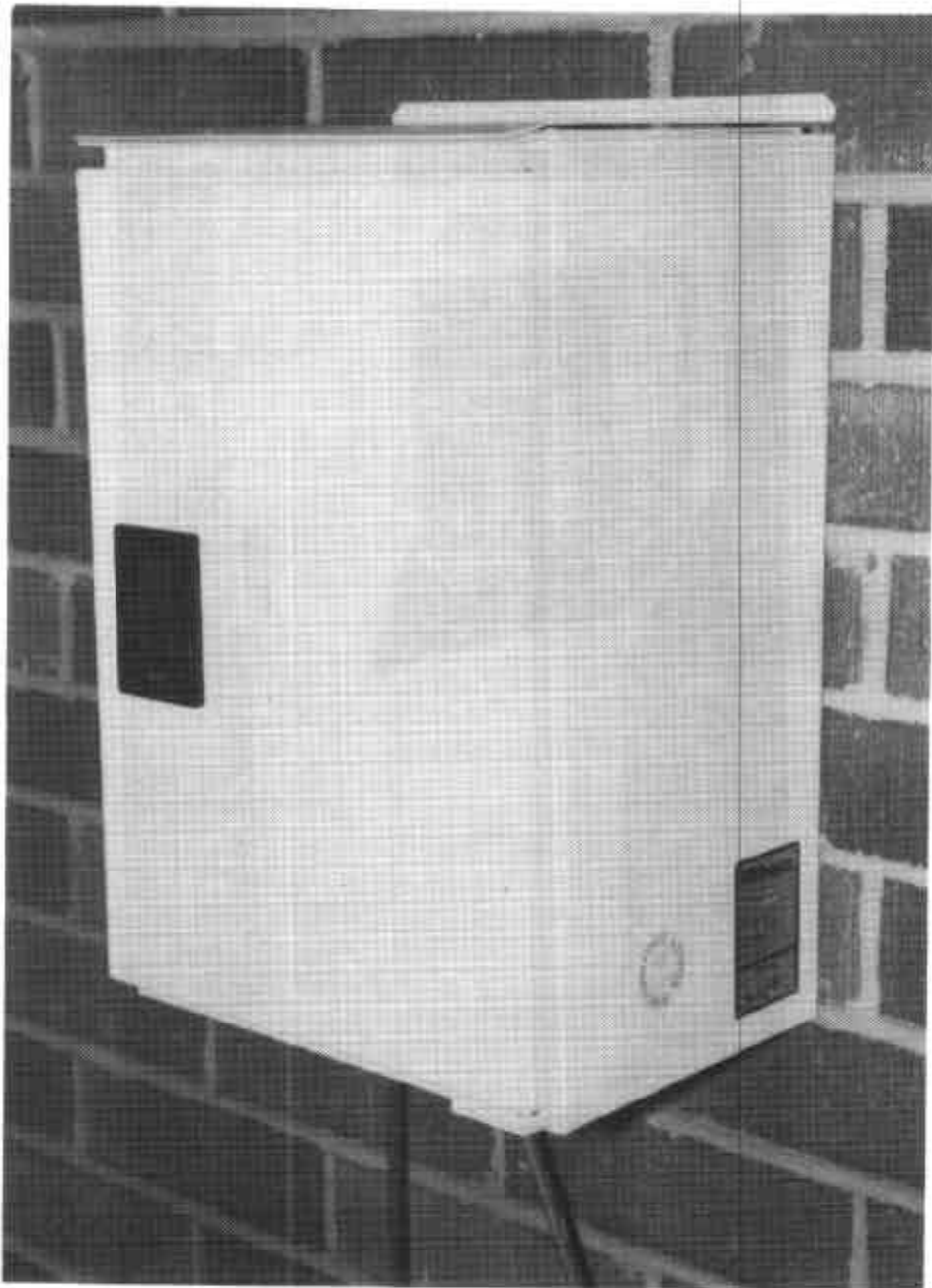


FIGURE S198A - 1



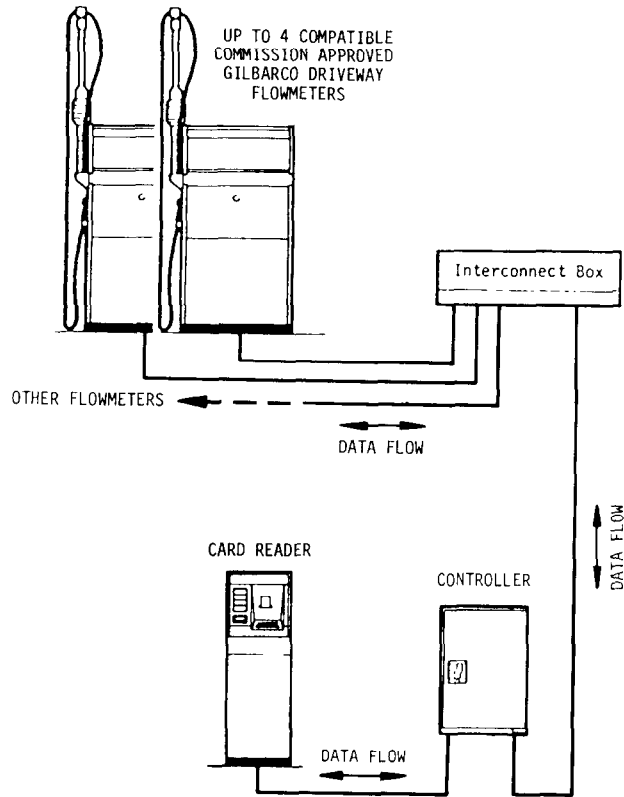
Gilbarco Model Datapump T084B Terminal

FIGURE S198A - 2



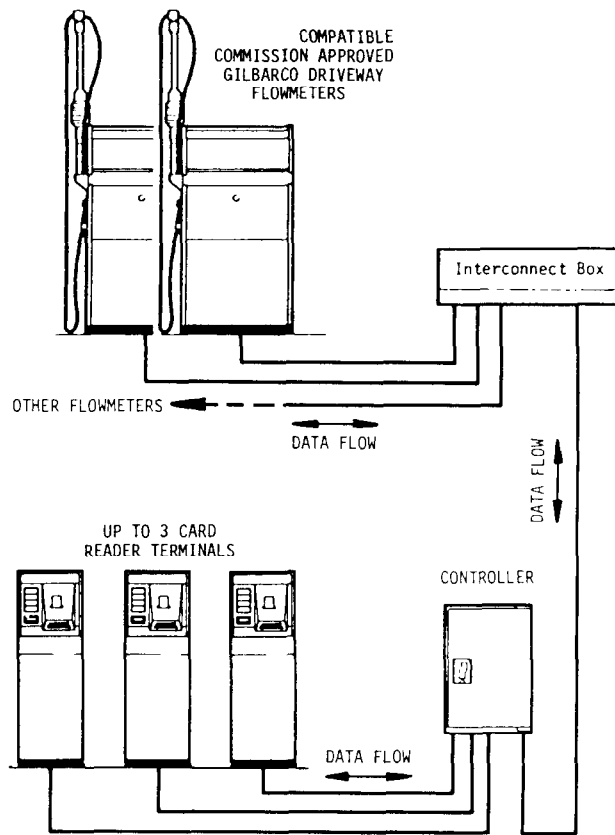
Model Datapump T084P Controller

FIGURE S198A - 3



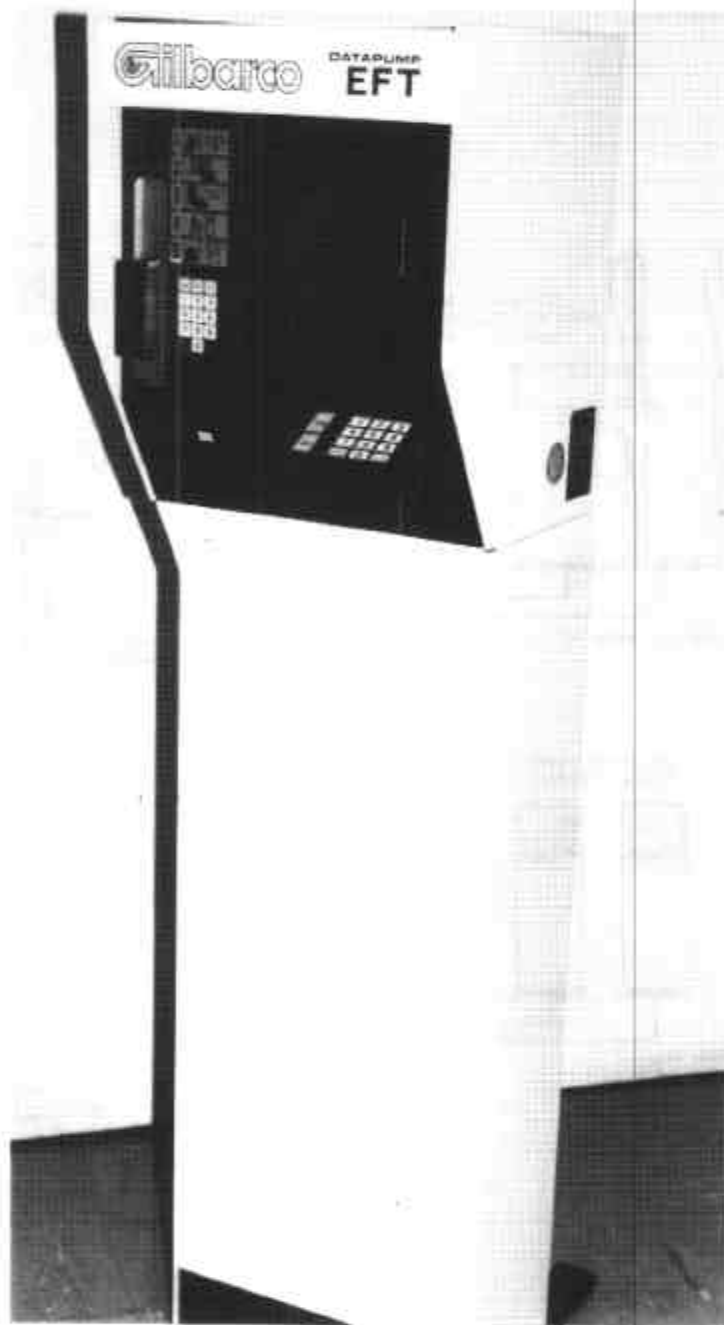
Schematic Diagram - Pattern and Variant 1

FIGURE S198A - 4



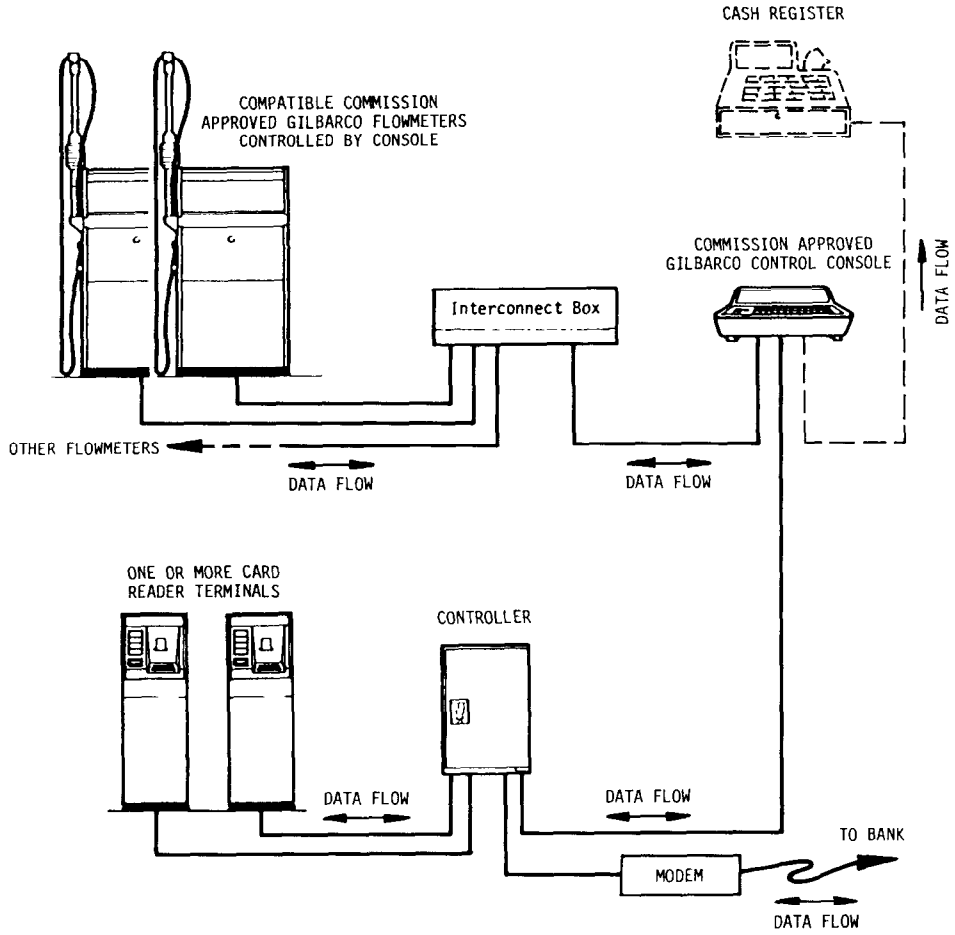
Schematic Diagram - Variants 2 and 5

FIGURE S198A - 5



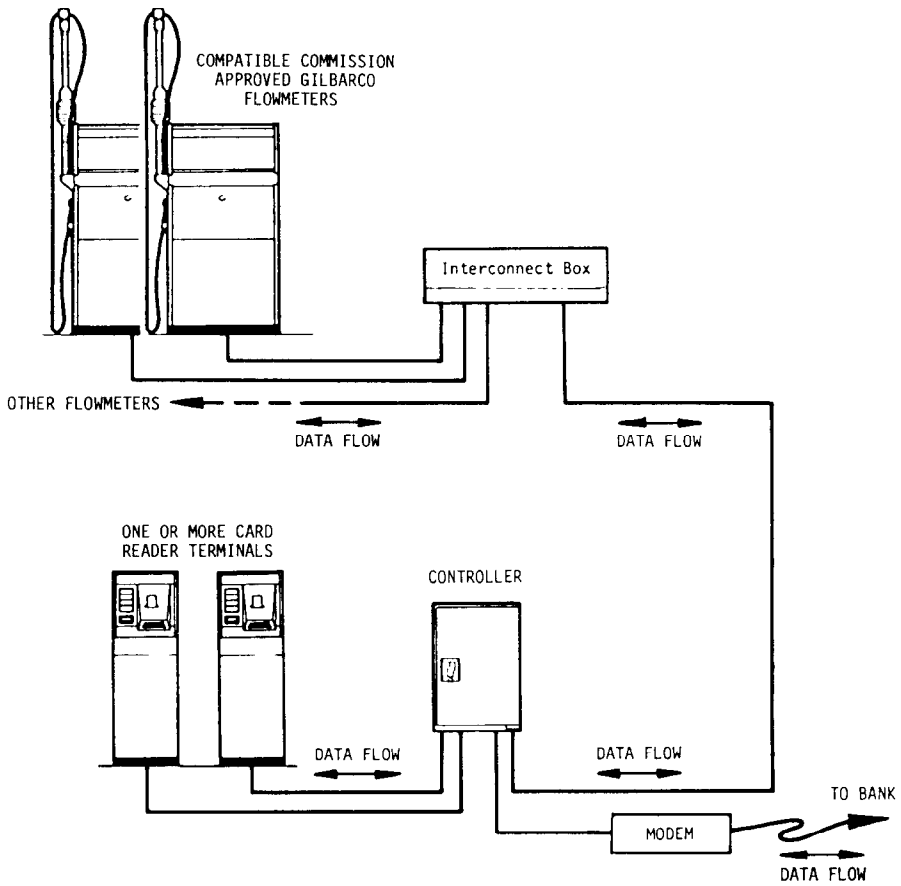
Model Datapump T084S Terminal

FIGURE S198A - 6



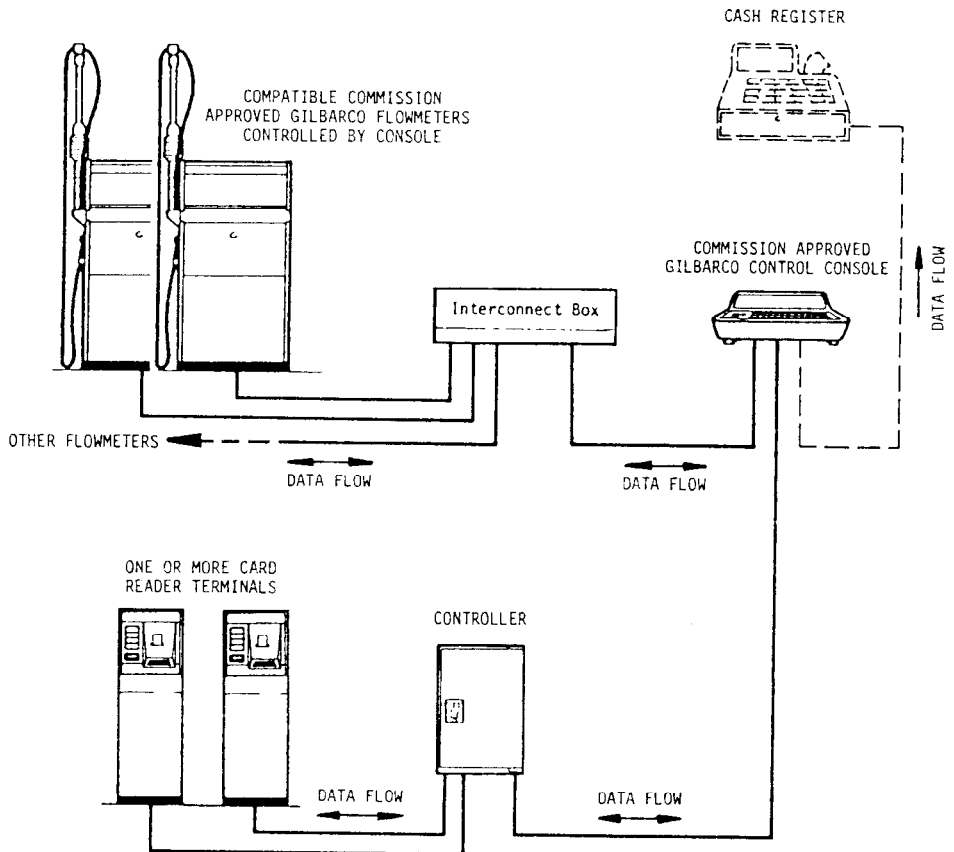
Schematic Diagram - Variant 3 (With Console)

FIGURE S198A - 7



Schematic Diagram - Variant 3 (Without Console)

FIGURE S198A - 8



Schematic Diagram - Variant 4