



# NATIONAL STANDARDS COMMISSION

## NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

### REGULATION 9

#### PROVISIONAL SUPPLEMENTARY CERTIFICATE OF APPROVAL No PS187

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

AutoTank Model CT24 Driveway Flowmeter Control System

submitted by L M Ericsson Pty Ltd  
61 Riggall Street  
Broadmeadows Vic 3017.

#### CONDITIONS OF APPROVAL

##### General:

This approval is subject to review on or after 1/11/86.

Instruments purporting to comply with this approval shall be marked NSC No PS187.

This approval may be withdrawn if instruments are constructed and used other than as described in the drawings and specifications lodged with the Commission.

##### Special:

Any additional auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0.

The instrument is only approved for installations incorporating the Commission-approved driveway flowmeter systems described in this approval.

Signed

Acting Executive Director

#### Descriptive Advice

Pattern: provisionally approved 12/11/84

AutoTank model CT24 card-operated driveway flowmeter control system.

Variants: provisionally approved 12/11/84

1. With Commission-approved driveway flowmeters incorporating Gilbarco Calcopac indicators.
2. With Commission-approved driveway flowmeters incorporating Veeder-Root mechanical indicators.

Variant:           provisionally approved 11/7/85

3.       With Commission-approved Wayne Epitronic driveway flowmeters.

Technical Schedule No S187 describes the pattern and variants.

Filing Advice

The documentation for this approval comprises:

Provisional Supplementary Certificate of Approval No PS187 dated 10/12/85  
Technical Schedule No S187 dated 10/12/85  
Test Procedure No S187 dated 10/12/85  
Figures 1 to 4 dated 10/12/85



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No S187

Pattern: AutoTank Model CT24 Driveway Flowmeter Control System

Submittor: L M Ericsson Pty Ltd  
61 Riggall Street  
Broadmeadows Vic 3017

### 1. Description of Pattern

The pattern is an AutoTank model CT24 card-operated control system interfaced to Commission-approved Gilbarco driveway flowmeters incorporating indicators with electronic unit price change facility. The system allows account transactions to be made either locally or remotely using electronic fund transfer (EFT) facility. The authorised cards may either be controlled distribution cards issued to selected users or financial institution cards available to the public.

The system comprises:

- (a) AutoTank card-acceptor terminal(s) - (Figures 1 and 2)
- (b) An AutoTank control unit - (Figure 3)
- (c) Compatible Commission-approved driveway flowmeters
- (d) An operators console unit
- (e) A pump control unit (optional) - (Figure 4)
- (f) A system control panel (optional)
- (g) A junction box (optional)
- (h) A data cassette unit (optional)
- (i) Modems (optional)
- (j) A remote unit price display (optional)

#### 1.1 AutoTank Card-operated Terminal (CT)

The CT24 terminal may control up to 6 driveway flowmeters and has the following features:

- (a) An alphanumeric display used to generate prompts to guide the user through data entry functions.
- (b) A keyboard with 10 numeric keys and other special function keys e.g. separate pump select keys, ENTER, CANCEL, O.K., SAVINGS, CREDIT, CLEAR. The special function keys determine the types of transaction facilities available on the CT and may vary with the financial institution data entry requirements.
- (c) A card-acceptor into which the authorised card is inserted. All accesses to the AutoTank terminal are recorded internally.
- (d) A ticket printer and internal journal printer.

#### 1.2 AutoTank Control Unit (ACU)

The ACU is the controller of the system and comprises a power supply and central computer boards in a cabinet installed remotely. The functions of the ACU are; to store and distribute system parameters, to record and to transfer transactions, to store and to recall background information necessary for system operation.

The ACU may be connected with up to four AutoTank card terminals in which case up to 15 driveway flowmeters may be fitted.

### 1.3 Operators Console Unit (OCU)

The OCU may be any compatible printer/keyboard/visual display unit combination. The prime function of the OCU is to communicate and to provide an access to the functions of the ACU e.g. allocation of driveway flowmeters to be controlled by the card terminal.

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

### 1.4 Operating Procedure

- (a) Insert authorised card into the CT unit.
- (b) Enter personal identification number (optional).
- (c) Select account to be debited (optional).
- (d) Enter odometer reading (optional).
- (e) Enter vehicle card (optional).
- (f) Select the driveway flowmeter number.
- (g) The card is then returned and a delivery may be made.
- (h) After nozzle hang-up, the internal record is printed and a ticket is made available by re-inserting the card.

#### NOTE:

1. The order of the operating procedure may vary with the financial institution requirements e.g. step (b) may be required to take place after step (f).
2. 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 Markings

The card terminal(s) are marked with the following data:

Manufacturer's name or mark	
Serial number	
Model number	
NSC approval number	NSC No PS187
Year of manufacture	

In addition:

- (a) 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; and
- (b) The allocated driveway flowmeters controlled by the AutoTank card terminal shall be clearly identified.

### 1.6 Verification Provision

Provision is made for a verification mark to be applied on the card terminal, operators console unit and on either the AutoTank control unit or the system control panel.

## 2. Description of Variants

### 2.1 Variant 1

AutoTank CT24 system interfaced to Commission-approved driveway flowmeters incorporating Gilbarco Calcopac indicators having manual unit price setting by means of thumb-wheels on the face of the indicator, in which case the system shall only read the unit price set at the driveway flowmeter and the instruction command in the AutoTank allowing remote unit price change shall be disabled.

### 2.2 Variant 2

AutoTank CT24 system incorporating AutoTank pump control unit interfaced to Commission-approved driveway flowmeters incorporating Veeder-Root mechanical indicators. The unit price set at the Veeder-Root indicator is entered into the CT24 system and is displayed at the card terminal allowing the user to terminate the transaction before the driveway flowmeter is authorised.

### 2.3 Variant 3

AutoTank CT24 system incorporating AutoTank pump control unit interfaced to Commission-approved Wayne Epitronic driveway flowmeters. The indicator on the driveway flowmeter is either completely covered or only the volume display is shown in which case the display is clearly marked that the volume displayed is an approximation only and is not for trade use, and that the ticket issued by the AutoTank card terminal is the primary indicator. The approval is limited to the instruments located at Four'n Twenty Pies, 41 Tennyson Street, Kensington Victoria.

TEST PROCEDURE No S187

The following should be conducted in conjunction with any tests specified in the approval documentation for the driveway flowmeter systems to which this instrument is connected. The results shall not exceed the maximum permissible errors as specified in Document 118.

1. Check that the allocated driveway flowmeters are controlled by the AutoTank card terminal and are identified.
2. Complete at least two deliveries and check that the vendor's and purchaser's records of transaction are identical to that of the display on the driveway flowmeter.



# CANCELLATION

PS187  
20/2/86

## NATIONAL STANDARDS COMMISSION

### CANCELLATION CERTIFICATE OF VARIANT 3 OF APPROVAL No PS187

This is to certify that the approval for use for trade granted in respect of variant 3 of the

AutoTank Model CT24 Driveway Flowmeter Control System

submitted by L M Ericsson Pty Ltd  
61 Riggall Street  
Broadmeadows Vic 3017

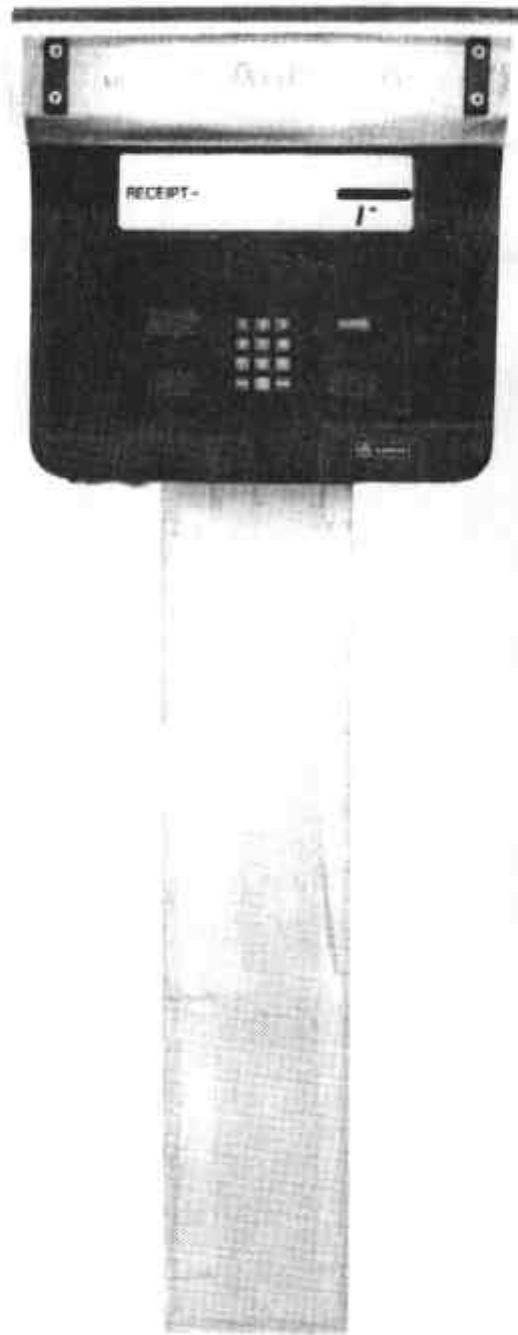
has been cancelled in respect of new instruments as from 20/12/85.

The instrument located at Four'n'Twenty Pies, 41 Tennyson Street, Kensington, Victoria may, with the concurrence of the respective State Weights and Measures Authority, be submitted for reverification.

Signed

Acting Executive Director

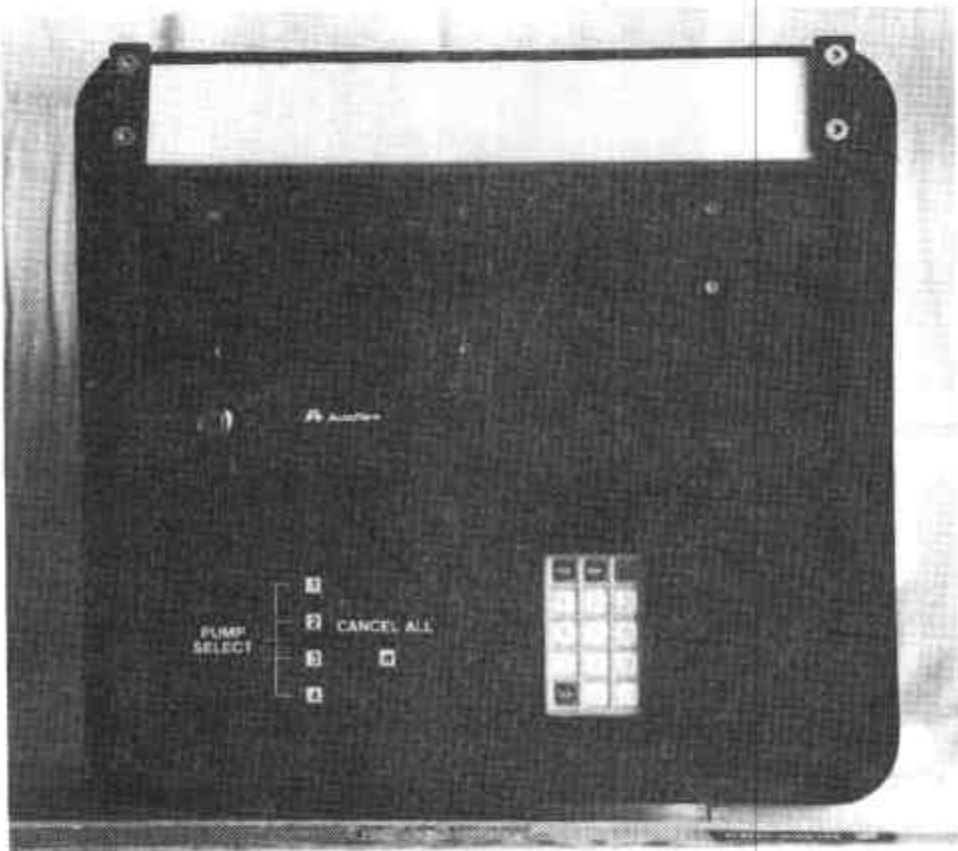
FIGURE S187 - 1



AutoTank Card Terminal

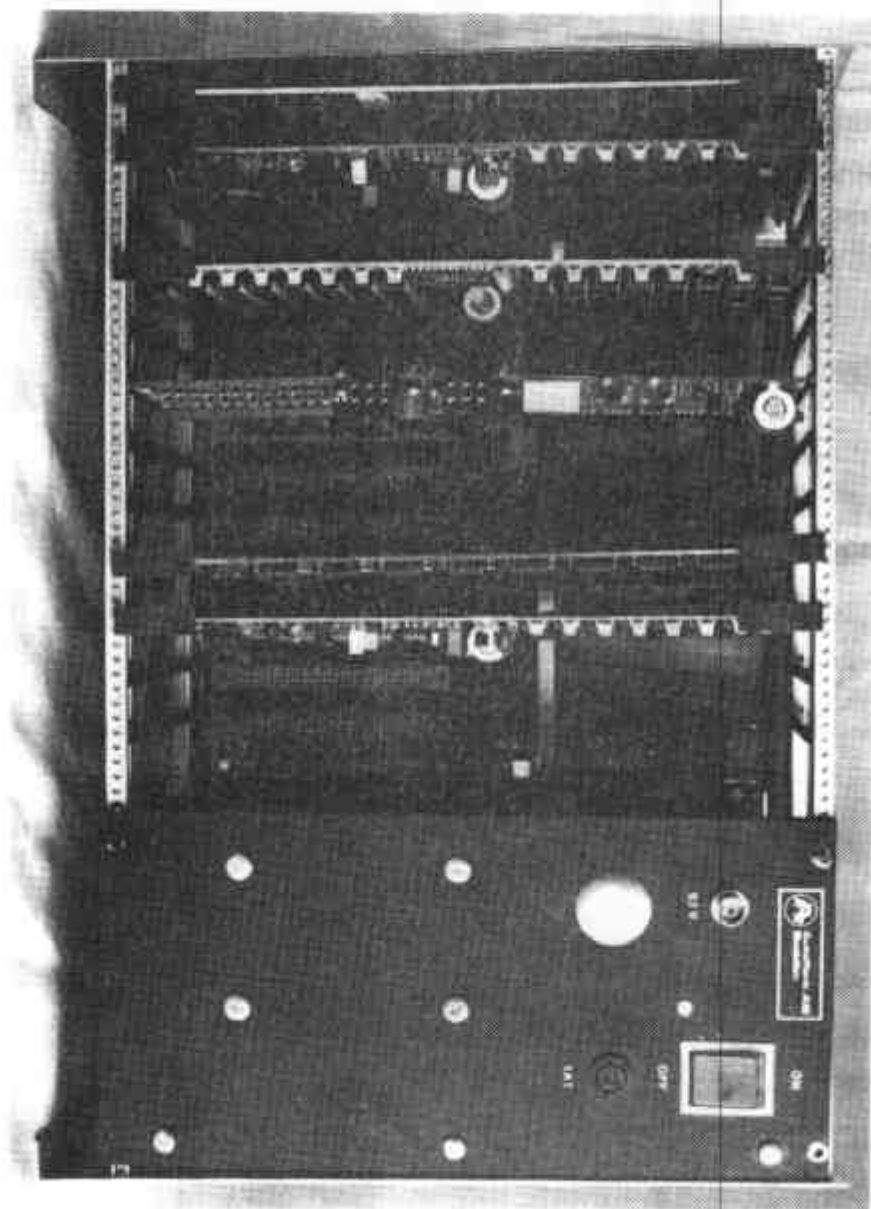


FIGURE S187 - 2



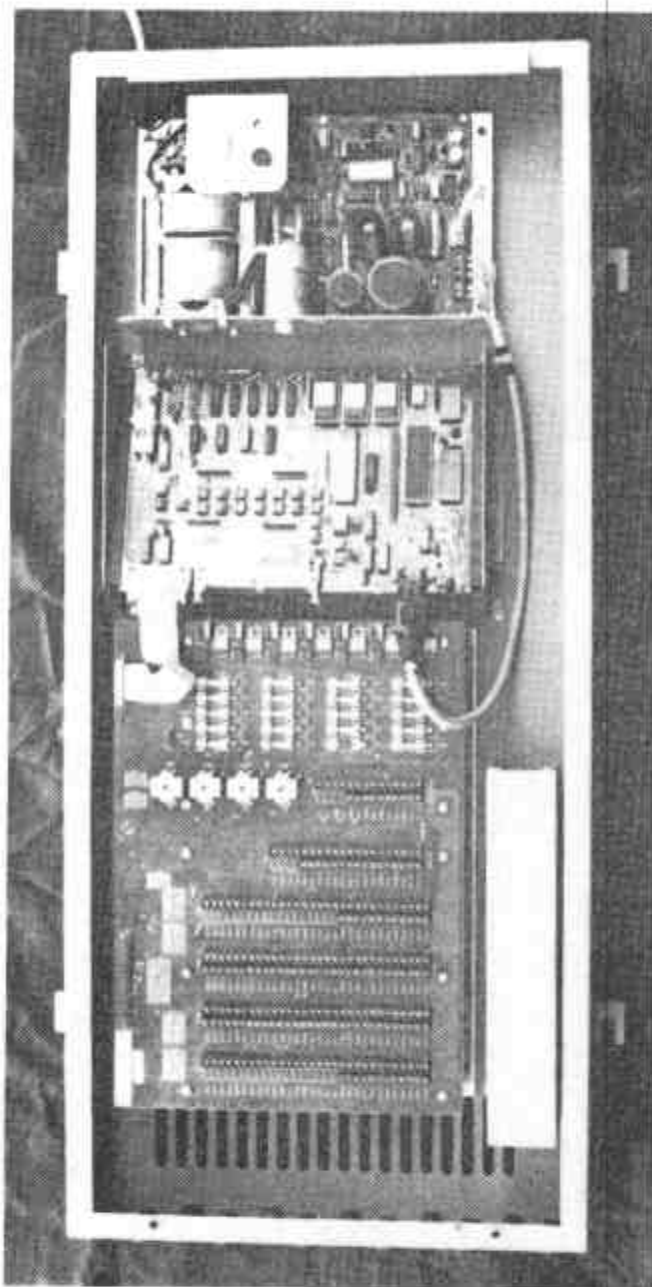
AutoTonk Terminal With EFT Facility

FIGURE S187 - 3



Control Unit With Cover Removed

FIGURE S187 - 4



Pump Control Unit With Cover Removed