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FC6000 Forecourt Controller



TransTech Overview

The **TransTech** fuel management system provides a range of solutions for 24 hour unattended and attended control and monitoring of industrial, commercial and retail refuelling systems. The range of products includes low-end commercial fuel management systems for small fleet operators, industrial grade fuel management systems suitable for harsh, remote and mobile applications.

FC6000

The **FC6000** is a forecourt controller that is able to interface with fuel pumps that communicate with Email, Gilbarco or PEC serial pump protocols. It provides comprehensive forecourt control functionality, with a video interface to a PC style display, or can be used as a passive site monitor. It incorporates a point-of-sale (POS) features based on 20 categories of wet- and dry-stock products with the ability to drive a customer display and a cash drawer and has interface capabilities with major industry POS packages. Transactions can be processed either as EFTPOS, cash sales or to private customer accounts with access authorised via magnetic card systems. The private accounts can belong to small site-specific systems or be part of nationwide branded magnetic card databases, operating in either negative or positive validation modes. The systems can be operated as stand-alone sites or can be expanded to multi-site networked systems that are managed remotely using the **TransHost** PC application, with data transfer enabled through a wide range of communications technologies, including RS232, PSTN, GSM and satellite.



FC6000 Forecourt Controller

FC6000-S Variant

The **FC6000-S** variant provides a full customer control and interface solution with POS capability. This includes support for display monitor, pump control and receipt printer. Keyboards are to be purchased separately.

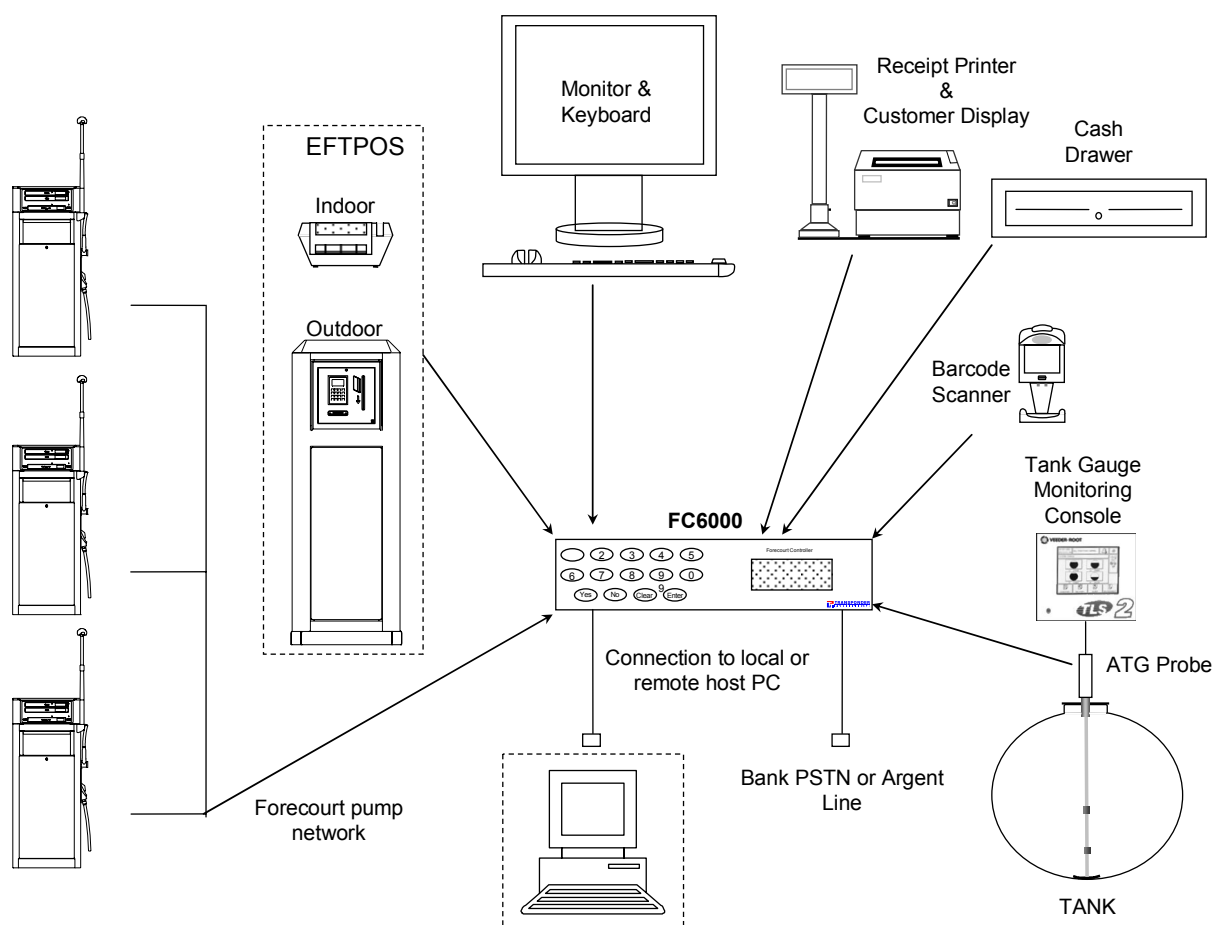
FC6000-A Variant

The **FC6000-A** provides a solution for providing applications such as expansion of card networks. It does not provide pump control as is used for acquiring transactions only onto cards. The unit requires the 16 key PINPad with card swipe and support for a receipt printer but does not include support for a display monitor or pump control. To upgrade to an **FC6000-S** variant requires a return to factory.

The only accessories that can be provided for a **FC6000-A** are:

- Receipt Printer
- PSTN Modem
- Direct Connect RS232 Interface

FC6000 Options



TransTech FC6000 Forecourt Controller with Integrated POS

The **FC6000**, forms part of the **TransTech** platform of fuel management systems designed by TT. The core components used in the **FC6000** are universal across the **TransTech** product range which is used extensively in both retail and commercial fuel management applications in Australia and South East Asia. Built using embedded software, rather than PC based operating systems, the **FC6000** provides a stable, enduring environment which is not reliant on, nor exposed to, software updates, and associated risks faced by PC based systems.

This simplicity in design of the **FC6000** does not in any way limit functionality in comparison with traditional “high end” POS systems in the market.

The modular nature of the **FC6000** provides greater flexibility in facilitation of all categories of sites and can be easily upgraded to expand functionality for growing sites with almost no component redundancy.

The **FC6000** in standard POS mode caters for 20 product categories and unlimited items in each category. Product selection at the sale is simplified via the speed key format and screen menu structure.

The optional **FC6000** T-Scan POS and Forecourt Control System adds Barcode Scanning to the standard FC6000 POS with the ability to hold and manage up to 2500 different dry stock items. These can be loaded manually via the scanner or via the **Trans-PLU** PC software application.

The components and configurations proposed are from tried and tested product groups and as such are market ready for installation.

As a further consideration, Transponder Technologies is also able to extend functionality of the **FC6000** platform to provide remote tank gauging on retail sites offering improvement in both reconciliation and supply chain management.

The **FC6000** platform is also ideal for commercial customers with TT offering fleet type options including secure remote vehicle recognition access. This TT technology could be installed either on retail sites (Truck Stop) or on fleet owned (home base) bulk fuel sites. Dial up and management of commercial fleet activity would be facilitated and managed via the same Head Office structure detailed in this proposal possibly as an extended bureau service.

TransTech FC6000 Forecourt Console + Point of Sale (POS)

The **FC6000** can be linked to POS systems to provide EFT payment capability. This also allows for fuel cards or white cards to be used for payment in addition to Credit or Debit cards.

All permitted modes of payment can be configured separately on the system and reconciled on a daily basis. Credit and debit cards need to be processed on an separate indoor payment terminal and manually logged via the keypad of the FC6000, using the menu structure to select the appropriate payment mode.

The **FC6000** POS caters for optional data entry as required with each such card transaction. On sites where there are existing consoles, functionality upgrades are required to allow the electronic accumulation of the card transactions. Where no console currently exists, and the site merits full forecourt control, a **FC6000** console is required together with the installation of pump communications to provide the required control.

Site Functionality

The **FC6000** Forecourt control system provides remote office based pump control and transaction acquisition together with the electronic capture of fuel card payment details. The **FC6000** graphic screen displays pump icons in a format reflecting the physical layout of pumps on the forecourt. Each icon will reflect:

- The pump status in real time
- The pump grade
- Current sale, and
- Memorized transactions

The Speed Key Programmable Keyboard can be customized to suit the station. Keystroke functions include:

- Pump Authorisation,
- Toggle between pumps,
- Retrieve stacked transactions,
- Operate Cash Draw – Change calculation from tendered amount
- Manual transaction data entry
- User PIN
- Odometer
- Dry goods sales using product group keys and toggles to select product items
- Selection of Payment Mode if it is not fuel or prepaid card
- Receipt Printing
- Data Entry of all Wet stock Receipts for “Theoretical Tank Gauging” and Wet Stock reconciliation.



Theoretical Tank Gauging is possible via the **FC6000** console when all fuel transactions (card sales, cash sales and all fuel receipts) are recorded in the system providing reconciliation of deliveries and stock holding at each site at any given time.

Programmed Speed Keys cater for maximum functionality and speed of transaction for basic requirements.

The **FC6000** system has the ability to log cash transactions captured through the keypad by the operator. This includes the ability to classify payment modes such as prepaid cards, cash, or credit cards by card type. The keypad provides easy access to selection of dry goods by product group and item type. The basic **FC6000** POS functionality caters for 20 product categories and unlimited items in each category. Product selection at the sale is simplified via the speed key format and screen menu structure.

Administrative Tools

The **FC6000** console has its own keypad and screen in the console, for access to site configuration and administrative tools for use in the following functions:

- Pin code entry for access to the menu
- Site configuration

- Pumps
- Tank setup
- Capturing fuel deliveries for theoretical inventory management
- Console diagnostics.

The TransTech **FC6000** Forecourt Controller Hardware for a complete system includes:

- **FC6000** console with embedded Forecourt Control system
- 17in TFT Monitor
- Forecourt Console Keypad with Card Swipe and Department Keys for Dry Stock
- Customer Keypad
- Customer Display
- Thermal Receipt Printer
- Internal PSTN Modem for dial up connectivity
- Uninterrupted Power Supply (optional)
- Pump control Protocol Cards (optional)
- Cash Draw (Optional with basic FCC)
- Remote Tank Gauging (optional) for remote dipping and receipt logging

The **FC6000** console supports all Australian and New Zealand pump protocols which enable it to communicate with and control all pumps makes and models in Australia including:

- AUS-NZ (805, PEC and Compac)
- Email
- Gilbarco



This kit retains the serial interface with full functionality including a preset/prepay functionality.

TransTech FC6000 FCC +T-Scan POS Upgrade Option

The **FC6000 T-Scan** POS and Forecourt Control System adds the capability for Barcode Scanning to the standard FC6000 POS with the ability to hold and manage up to 2500 different dry stock items. These can be loaded manually via the scanner or via the **Trans-PLU** PC software application.

The **T-Scan** system also retains the full **FC6000** Forecourt Control functionality, including keypad functionality. All hardware to capture card, PIN and fuel transaction detail is retained as is the remote connectivity to all fuel, POS transactions and stock management.

The hardware required in conjunction with the **T-Scan** POS Upgrade includes:

- **FC6000** Forecourt Controller with embedded Forecourt Control system
- 17in TFT Monitor
- Forecourt Console Keypad with Card Swipe and Department Keys for Dry Stock
- Cash Draw
- Customer keypad
- Customer display
- Barcode Scanner (Desktop or Handheld)
- Thermal Receipt Printer
- Internal PSTN Modem for dial up connectivity
- **Trans-PLU** PC based Remote POS data management software
- Uninterrupted Power Supply (optional)
- Pump control Protocol Cards (optional)
- Remote Tank Gauging (optional) for remote dipping and receipt logging



Uninterrupted Power
Supply



Desktop Barcode Scanner



Handheld Scanner

TransPLU PLU Management Software

TransPLU is a PC application that facilitates PLU management for single or multiple sites for loading managing and distributing PLU numbers, stock and prices. Reporting options allow reports on shift, sales and inventory of dry stock items.

TransHost Fuel Management Software

The central component of the solution is the **TransHost** - Windows-based software application, which operates with a database back-end and provides “back-office” management and support functions of the **TT3000** system. The key function is being able to download and upload account card holder information as well as process accounts transactions. In addition to managing account card information the package is used to store and process all site wet and dry stock transactions for reconciliation of:

- Account customer totals
- Cash Transactions
- EFTPOS Transactions
- EFT Bank Settlements
- All inventory reconciliations including
 - Remote Oil Company Drops
 - Midnight Remote Tank Dips
 - Daily Pump Totals
 - Variances reported – (leak detection)
 - Pump Meter Reconciliation

In addition, **TransHost** can be used to remotely manage and set the Pump Product Prices, Upload Account Customer Cards Details (validate & block)

Reporting Interface

The **TransHost** application has a suite of embedded PC reports that have been pre-developed for daily weekly or monthly production. From the software, a series of pre-formatted reports will be available. Reports can be selected from a basic menu function within TransHost for display onscreen and or printing. **TransHost** provides for pre-formatted exportation of data in a number of file formats.

The **TransHost** backend is “open” and can be accessed by a third party using off-the-shelf software such as excel spreadsheets for processing or manipulation or other reporting tools. One such tool is Crystal Reports, which TT has used throughout its software development cycles when complementing in-house application development with a report interface.

For a full description of **TransHost** and the options available, please consult the **TransHost** Price Book.

Keyboard Options

The following sections show the proposed keyboard layouts for the various keyboards available for the **FC6000**.

The keyboards come in 2 layouts – 64 key for forecourt control and 96 key versions for POS functionality including product groups. A Swipe Card Reader for magnetic cards is available as an add-on.

Custom keyboard layouts are available on request. Please contact Kentronics for further details.

64 Key Layout

Esc	Del	ALL STOP		Manual Sale	Last Receipt	Old Receipt	Refund
P1 Sale	P2 Sale	P3 Sale	P4 Sale	P5 Sale	P6 Sale	P7 Sale	P8 Sale
P9 Sale	P10 Sale	P11 Sale	P12 Sale	P13 Sale	P14 Sale	P15 Sale	P16 Sale
No Sale	Voucher	Cash	Credit	Other	←	Authorise Pumps	
Temp Save	Show codes	7	8	9	YES	Toggle Pump	
Menu	↑	4	5	6	NO	Sale 1	
←	→	1	2	3	Enter	Sale 2	
Zoom	↓	0		00		Prepay	

Standard Product Groups on 96 Key Keyboard

Esc	Del	ALL STOP		Manual Sale	Last Receipt	Old Receipt	Refund	Cigarettes		Drinks	
P1 Sale	P2 Sale	P3 Sale	P4 Sale	P5 Sale	P6 Sale	P7 Sale	P8 Sale	Sweets		Accessories	
P9 Sale	P10 Sale	P11 Sale	P12 Sale	P13 Sale	P14 Sale	P15 Sale	P16 Sale	Ice Creams		Oils	
No Sale	Voucher	Cash	Credit	Other	←	Authorise Pumps		Food		Bottle Gas	
Temp Save	Show codes	7	8	9	YES	Toggle Pump		Milk		Bread	
Menu	↑	4	5	6	NO	Sale 1		Magazines		2 Stroke	Tackle
←	→	1	2	3	Enter	Sale 2		Bait	Kero	Hire	Ice
Zoom	↓	0		00		Prepay		News	Car Wash	Other	Cash Out

Option A Product Groups on 96 Key Keyboard

Esc	Del	ALL STOP		Manual Sale	Last Receipt	Old Receipt	Refund	Cigs	Drinks	Sweets	Accessories
P1 Sale	P2 Sale	P3 Sale	P4 Sale	P5 Sale	P6 Sale	P7 Sale	P8 Sale	Ice Creams	Milk / Juice	Groceries	Paper / Mags
P9 Sale	P10 Sale	P11 Sale	P12 Sale	P13 Sale	P14 Sale	P15 Sale	P16 Sale	Oils	Feeds		GST FREE
No Sale	Voucher	Cash	Credit	Other	←	Authorise Pumps					
Temp Save	Show codes	7	8	9	YES	Toggle Pump					
Menu	↑	4	5	6	NO	Sale 1		Motor Charge	Motor Pass	AMEX	Fleet Card
←	→	1	2	3		Sale 2		Diners Club	VISA	Master Card	
Zoom	↓	0	00	Enter		Prepay					CASH OUT