

C/OPT™ Fuel Control System

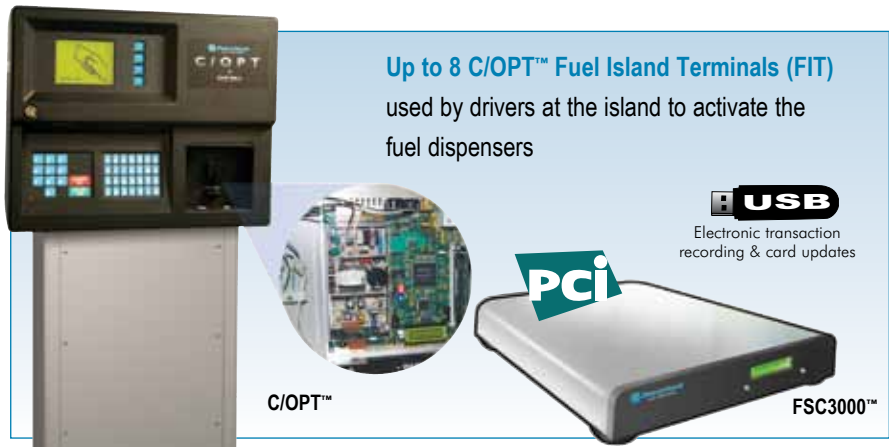
Now with the flexibility of having the FSC 3000™ within the Fuel Island Terminal, as a stand-alone system, making this the best solution for your 24-hour fueling sites accepting commercial fleet or major bank cards.

With a wide variety of options available, Petro Vend's C/OPT™ Fuel Control System is one of the most comprehensive solutions for your fleet-fueling or petroleum marketing application.

Benefits

- ◆ Each FSC3000™ can control up to 8 FITs with a maximum of 32 hoses per site
- ◆ Graphics display guides users through the fueling process with pictures and text
- ◆ Accepts dual readers including magnetic, optical, proximity and ChipKey® for maximum flexibility and reliability
- ◆ Optional full alpha keypad allows entry of vehicle tags and other alpha information
- ◆ "Smart" weather shield automatically closes to protect card readers and receipt chute
- ◆ Fiber-optically lit keypads and LED backlit display for easy fueling at night
- ◆ Optional thermal receipt printer
- ◆ USB memory key for transaction backup/transfer and updating card files
- ◆ Optional dial-up or cell modem allows communication to remote locations
- ◆ Each C/OPT™ can also be outfitted with 802.11 WiFi or Bluetooth® communication devices to facilitate updates and retrieval of transaction data

C/OPT™ Fuel Control System Components



C/OPT™ Fuel Control System Features



Profitability

Accepts the widest selection of fueling network and major bank cards.



Easy-to-Use

Customizable prompts for driver clarity. ARTWare™ PC software makes configuration a snap.



Installation

Integrated FSC3000™ for installations where no building is available. USB key for transaction backup and card file updates.



Communication

Optional 900 MHz wireless communication between island and building. Cell modem, Bluetooth® and 802.11 WiFi communication also available.

- ◆ PCI compliance via multi-tracking application PA-DSS (Payment Application Data Security Standard) for the FSC3000™ Fuel Site Controller
- ◆ USB memory key for transaction data storage and card updates
- ◆ Individual drivers and vehicles can be grouped into accounts for easier control of group restrictions and lockouts
- ◆ Extensive reporting capabilities with Phoenix™ Software
- ◆ Daily and monthly credit allocations per card/key/account lets you set fueling restrictions

- ◆ Selectable automatic lockout after three incorrect PIN entries for added security
- ◆ Dual card accountability allows tracking and reporting on drivers using multiple vehicles
- ◆ Communication ports allow for journal printer, PC, serial pass-through port, modem and Petro-Net™ connection
- ◆ Wireless Petro-Net™ communication reduces installation costs
- ◆ Odometer reasonability checking ensures accurate odometer entries
- ◆ Nine-character "name field" makes card record reporting more complete
- ◆ Cardless/keyless access allows drivers to fuel using a quick keypad entry
- ◆ Office journal printer for transaction log and report

Networks

- ◆ The C/OPT™ System interfaces with many authorization and commercial fueling networks to accept the following cards:
 - CFN
 - T-Chek
 - Comdata
 - Voyager
 - EFS
 - Wright Express
 - Fuelman/Gascard
 - Bank cards
 - Pacific Pride
 - FleetOne
 - TCH
- ◆ Dual network option reduces wait time by accessing two networks simultaneously

- ◆ The registered bank card feature permits 24-hour fueling in areas where unattended fueling is generally restricted
- ◆ The C/OPT™ System is field-upgradeable so you can easily add network interfaces to meet any needs.

Pump Control Methods

- ◆ Pump Control Modules for commercial dispensers with mechanical registers
 - Mounted in Fuel Island Terminal for low-cost, convenient wiring
 - Mounted in remote cabinet
 - Pump handle monitor
 - Manual bypass for each dispenser
 - Four adjustable fueling timers
 - Maximum fueling time
 - Maximum time to activate pump handle
 - Maximum time until first pulse
 - Maximum time between pulses
 - Counts in gallons or liters from thousandths to full units
 - Pump sentry provides protection from faulty pulsers
- ◆ Direct Pump Control communicates via serial link to the dispensers (optional)
 - Supports Wayne, Gilbarco and Tokheim protocols
 - Extremely simple installation
- ◆ Universal Pump Controller for operation with a pump controller (optional)
 - Interfaces with Wayne, Gilbarco and Tokheim
 - Allows pumps to be controlled via the Fuel Island Terminal or retail pump console

Memory

- ◆ Standard memory has 2,000 proprietary cards and 500 transactions
- ◆ Expandable to 64,000 proprietary cards, and 2,000 transactions

Phoenix™ Software

- ◆ Phoenix™ Plus – poll transactions, perform card updates, run reports
- ◆ Phoenix™ Premier – all of the Phoenix™ Plus features, plus tank gauge interface for reconciliation

C/OPT™ Fuel Island Terminal Specifications

Readers: Magnetic-stripe card, optical card, ChipKey®, proximity reader

Displays: (both have LED backlights) Standard graphics (3" x 4" – 320 x 240 pixels), Optional LCD (2 lines x 20 characters)

Receipt Printer (optional): The high-resolution, thermal receipt printer has an integral cutter and large paper roll

Keypads (standard and optional alpha): keypads are constructed of a UV-stable weather-resistant material over stainless steel contacts

Cabinet Dimensions: 15" H x 18.5" W x 11" D (38 cm H x 46 cm W x 28 cm D)

Pedestal Dimensions: 48" H x 14" W x 8" D (122 cm H x 36 cm W x 20 cm D)

Operating Temperature Range: - 40° F to 122° F (- 40° C to 50° C)

Power Requirements: 120/240 VAC (auto-detectable), 50/60 Hz; 250 watts max.

Pump Control Terminal Specifications

Relay Rating: 1 HP, 120/240 VAC

Pulser Compatibility: Contact/12 VDC electronic

Pulser Power Supply: 12 VDC; 40 milliamps max./pulser

Pulser Speed: 6,000 pulses/minute (mechanical) 100,000 pulses/minute (electronic)

Pulser Rate: 1:1 to 9,999:1 (in one-pulse increments)

Pulser Type: Single channel

Pulser Duty Cycle: 50%

Operating Temperature Range: -40° F to 122° F (-40° C to 50° C)

Cabinet Dimensions of Wall-Mounted Remote PCM: 11.5" H x 12" W x 6.5" D (29 cm H x 30 cm W x 16 cm D)

Power Requirements for Remote PCM: 85-240 VAC, 50/60 Hz; 25 watts max.

Operating Temperature Range of Remote PCM: -40° F to 122° F (-40° C to 50° C)



The rugged, tamper-resistant ChipKey® is a popular alternative to cards. It fits easily onto a customer's key ring, so it's convenient and hard to lose. Every ChipKey® contains a microchip that can be programmed and reprogrammed as many times as you like.



With the proximity reader option installed in your C/OPT™ Fuel Island Terminal, fueling access is either granted or denied a cardholder when their proximity card is waved within a few inches of the reader.

FSC3000™ Fuel Site Controller Specifications

Dimensions: 2" H x 10" W x 11" D (5 cm H x 25 cm W x 28 cm D)

Power Requirements: 85-240 VAC, 50/60 Hz; 25 watts max.

Operating Temperature Range (indoors): 32° F to 122° F (0° C to 50° C)

Serial Communication Ports: Petro-Net™ (RS-485), Printer (RS-232), Terminal (RS-232), Modem (RS-232), Pass-through (RS-232), 2 Auxiliary Ports (RS-232), Tank Gauge, Ethernet, USB

Maximum Petro-Net™ Distance: 5,000 feet (1,524 m)

Petro Vend Fuel Control Systems

From the smallest fleet to the largest petroleum marketing operation, Petro Vend has been providing effective solutions to meet your fuel control needs since 1961. 24-hour unattended fleet fueling systems like the K800™ and AFC™ only allow authorized users to access fuel, tracking every transaction and restricting vehicles to

the type of fuel and quantities they need for complete security, accountability and control.

Systems like The K800™ Hybrid, C/OPT™ and FIT500™ accept nationwide fueling network cards as well as local proprietary network cards, allowing petroleum marketers to grow their 24-hour unattended

fueling business and stay profitable. Other industry-leading options like RFID access, wireless data communication and powerful fuel management software continue to make Petro Vend Fuel Control Systems the leader in 24-hour unattended fuel management.

Petro Vend Fuel Control Systems - Features Overview

Fuel Control System Model	PetroLink™ (page 330)	FIT500™ (page 332)	C/OPT™ (page 334)	K800™/System2™ Hybrid (page 336)	K800™ (page 338)	AFC™ (page 342)	Keegard™ (page 344)
Magnetic Stripe Card Access	•	•	•	•	•	•	
ChipKey® Access	•		•	•	•		
Proximity Card Access	•		•	•			
PetroLink™ RFID Access	•	•	•	•			
DuraKey™ Access						•	
Keypad Access	•	•	•	•	•	•	
Hose Capacity Per System	32	32	32	32	16	8	1
Fuel Island Terminal Capacity Per System	N/A	8	8	8	4	N/A	
Maximum Transaction Storage	2000	2000	2000	2000	1,800	999	N/A
Maximum Proprietary (local network) Card/Key/ User Capacity	64,000	64,000	64,000	64,000	10,000	10,000	30
Mileage Reasonability		•	•	•	•		
Dual Card Accountability	•	•	•	•	•	•	
Phoenix™ Fuel Management Software Compatability	•	•	•	•	•		
Commercial Fleet and Trucking Card Acceptance	•	•	•	•			
Bankcard Acceptance		•	•				
Wireless Communication	•	•	•	•	•		
Certifications	ETL	ETL US/C	ETL US/C	ETL US/C	ETL US/C	ETL	UL