

# AFC Fuel Control System



*The Automated*

*Fuel Management Solution*

*for Fleet Operations.*



### Reports Selection

Driver  
 System  
 Fuel Type  
 Report  
 Filtered By Vehicle Number  
 Filtered By Driver Number  
 Filtered By Vehicle Department  
 Filtered By Driver Department  
 Filtered By Termination Code  
 Filtered By Card/Key #1  
 Filtered By Card/Key #2  
 Filtered By Site Number  
 Filtered By Site# / Unit# / Fueling Position

Date/Time Range  
 From Date: 10/29/99  
 To Date: 10/29/99  
 Vehicle Selection  
 All  
 Report Type  
 Full

# AFC Fuel Control System

## Advanced Fuel Control (AFC) for Small to Mid-size Fleet Fueling Applications

- Affordable
- Easy to use
- Easy to install
- Weather Resistant



Let the AFC help you manage your fleet. You'll never have to wonder when maintenance is due, who gets which fuel type, where your fuel goes, or how to keep track of your vehicles with the AFC Fuel Control System.

This turnkey fuel control system is easy to use and set-up. The AFC's durable, weather-resistant stainless-steel construction ensures years of uninterrupted service. And because it's modular, maintenance can be accomplished quickly, reducing down time and operating costs.

Print transactions



Configure your site remotely from your PC.

Interfaces with PC. Transfer transaction data to PC.



Transaction Number	Site Number	Unit Number	Date	Time	Card/Key Number	Card/Key Number 2	Vehicle	Fueling Position	Quantity	Sale	Price per unit	Tax/No Tax	Miles Per Gallon	Cost Per Mile	Termination Code
0003	001	001	12/04/1998	14:32	007999	000000	0000007999	001	000001 0	00000001 02	\$1.000	1	000.0	000.00	000
0004	001	001	12/04/1998	14:33	007999	000000	0000007999	001	000000 5	00000000 51	\$1.000	1	000.0	000.00	000
0005	001	001	12/04/1998	14:33	007999	000000	0000007999	002	000000 5	00000000 51	\$1.000	1	000.0	000.00	000
0009	001	001	10/06/1998	13:59	007999	000000	0000007999	001	000007 7	00000000 82	\$1.000	1	000.0	000.00	000
0009	001	001	10/06/1998	13:59	007999	000000	0000007999	002	000007 6	00000000 790	\$1.000	1	000.0	000.00	000
0010	001	001	10/06/1998	13:59	007999	000000	0000007999	003	000007 7	00000000 882	\$1.000	1	000.0	000.00	000
0010	001	001	12/16/1998	09:07	000000	005489	00007111	004	000001 1	00000000 00	\$0.000	1	57.4	000.00	000
0011	001	001	10/06/1998	13:59	007999	000000	0000007999	004	000007 6	00000000 790	\$1.000	1	000.0	000.00	000
0012	001	001	10/06/1998	14:02	007999	000000	0000007999	001	000006 5	00000000 662	\$1.000	1	000.0	000.00	000
0012	001	001	12/16/1998	09:12	000000	005489	00007111	004	000000 0	00000000 00	\$0.000	1	000.0	000.00	000
0013	001	001	10/06/1998	14:02	007999	000000	0000007999	002	000006 4	00000000 560	\$1.000	1	000.0	000.00	000
0013	001	001	12/16/1998	10:36	000070	005489	00000035	004	000001 5	00000000 00	\$0.000	1	2002	000.00	000
0014	001	001	10/06/1998	14:02	007999	000000	0000007999	003	000006 5	00000000 662	\$1.000	1	000.0	000.00	000
0014	001	001	12/16/1998	10:36	000070	005489	00000035	003	000000 0	00000000 00	\$0.000	1	000.0	000.00	000
0015	001	001	10/06/1998	14:02	007999	000000	0000007999	004	000006 4	00000000 560	\$1.000	1	000.0	000.00	000
0015	001	001	12/17/1998	08:40	000057	005489	000001522	004	000004 1	00000000 00	\$0.000	1	5607	000.00	000
0016	001	001	10/06/1998	14:04	007999	000000	0000007999	001	000025 7	00000000 243	\$1.000	1	000.0	000.00	000
0017	001	001	10/06/1998	14:04	007999	000000	0000007999	002	000025 6	00000000 240	\$1.000	1	000.0	000.00	000
0019	001	001	10/06/1998	14:04	007999	000000	0000007999	003	000025 7	00000000 243	\$1.000	1	000.0	000.00	000
0019	001	001	12/15/1998	08:44	000117	005489	00000000	004	000040 7	00000000 00	\$0.000	1	000.0	000.00	000
0019	001	001	10/06/1998	14:04	007999	000000	0000007999	004	000025 6	00000000 240	\$1.000	1	000.0	000.00	000

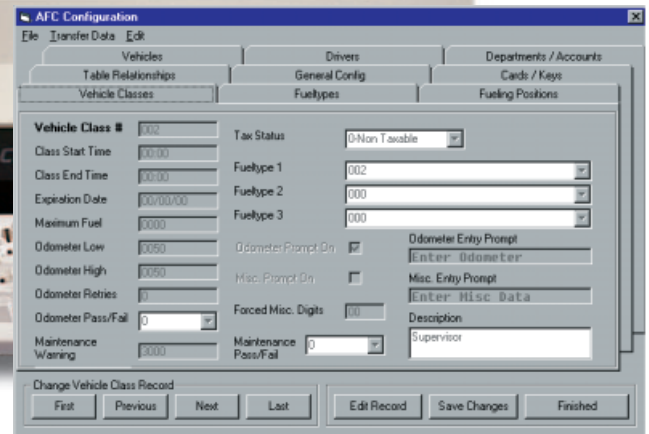
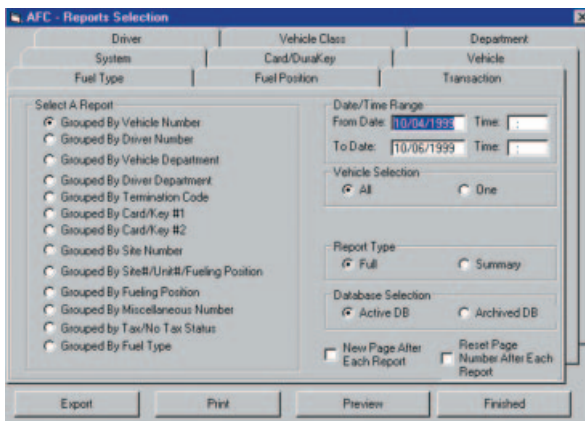
### Transactions Include The Following Fields:

- Transaction Number
- Site Number
- Unit Number
- Date
- Time
- Card/Key Number
- Card/Key Number 2
- Vehicle
- Vehicle Department
- Vehicle Class
- Driver
- Driver Department
- Odometer
- Miscellaneous
- Fueltype
- Fueling Position
- Quantity
- Sale
- Price
- Tax/No Tax
- Miles Per Gallon
- Cost Per Mile
- Termination Code



# Put fuel control management at your fingertips

- Use the Administrator Software to program your vehicles, drivers, personal identification numbers, limits, etc.
- Transmit the configuration to the AFC.
- Once data has been processed by the AFC, it can be accessed through your PC. Then use the Administrator Software to print the reports you need the way you need them.
- When the AFC's data is transferred to your PC, we put your fleet at your fingertips with programmable vehicle and driver information, fuel restrictions, driver and vehicle lockout, department discounts, odometer reasonability, security, reporting, and much more...
- ASCII export utility allows the transfer of data to third party software packages.
- Historical totalizer readings provide data for inventory reconciliation.



## Minimum PC Specifications:

- Pentium 233 MHZ
- 50 Meg free hard-drive space
- 64 Meg RAM
- Windows 98, 2000, NT or XP
- Video Display 256 colors 600 x 800
- Inkjet Printer
- CD-ROM Drive

## Recommended PC Specifications:

- Pentium 400 MHZ
- 50 Meg free hard-drive space
- 128 Meg RAM
- Windows 98, 2000 NT or XP
- Video Display 256 colors 600 x 800
- Laser Printer
- CD-ROM Drive

**Note:** Windows NT requires service pack 3 or later. Windows XP requires service pack 1 or later. Windows 2000 requires service pack 2 or later.

# The AFC provides comprehensive reports for critical fuel management decisions.

**All Transactions From 01/01/1999 To 03/25/1999 Sorted By Fueling Position**  
FULL REPORT

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Transact#	Date	Time	Driver	Driver Dept	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Rate
Fuel Type	Fuel Pos	MPG	Cost/Mile	Price/Unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Driver Dept Description	Vehicle Dept Description	Fuel Type Description			
Fueling Position: 003														
0028	01/02/99	002	003	71-Passenger or										
0030	01/02/99	002	003	71-Passenger or										
0036	01/02/99	002	003	71-Passenger or										
0039	01/02/99	002	003	71-Passenger or										
0045	01/02/99	002	003	71-Passenger or										
0048	01/02/99	002	003	71-Passenger or										
0053	01/02/99	002	003	71-Passenger or										
0056	01/02/99	002	003	71-Passenger or										
0062	01/02/99	002	003	71-Passenger or										
0063	01/02/99	002	003	71-Passenger or										
0065	01/02/99	002	003	71-Passenger or										
0066	01/02/99	002	003	71-Passenger or										
0067	01/02/99	002	003	71-Passenger or										
0068	01/02/99	002	003	71-Passenger or										
0069	01/02/99	002	003	71-Passenger or										
0070	01/02/99	002	003	71-Passenger or										
0071	01/02/99	002	003	71-Passenger or										
0072	01/02/99	002	003	71-Passenger or										
0073	01/02/99	002	003	71-Passenger or										
0074	01/02/99	002	003	71-Passenger or										
0075	01/02/99	002	003	71-Passenger or										
0076	01/02/99	002	003	71-Passenger or										
0077	01/02/99	002	003	71-Passenger or										
0078	01/02/99	002	003	71-Passenger or										
0079	01/02/99	002	003	71-Passenger or										
0080	01/02/99	002	003	71-Passenger or										
0081	01/02/99	002	003	71-Passenger or										
0082	01/02/99	002	003	71-Passenger or										
0083	01/02/99	002	003	71-Passenger or										
0084	01/02/99	002	003	71-Passenger or										
0085	01/02/99	002	003	71-Passenger or										
0086	01/02/99	002	003	71-Passenger or										
0087	01/02/99	002	003	71-Passenger or										
0088	01/02/99	002	003	71-Passenger or										
0089	01/02/99	002	003	71-Passenger or										
0090	01/02/99	002	003	71-Passenger or										
0091	01/02/99	002	003	71-Passenger or										
0092	01/02/99	002	003	71-Passenger or										
0093	01/02/99	002	003	71-Passenger or										
0094	01/02/99	002	003	71-Passenger or										
0095	01/02/99	002	003	71-Passenger or										
0096	01/02/99	002	003	71-Passenger or										
0097	01/02/99	002	003	71-Passenger or										
0098	01/02/99	002	003	71-Passenger or										
0099	01/02/99	002	003	71-Passenger or										
0100	01/02/99	002	003	71-Passenger or										

**All Transactions From 01/01/1999 To 03/25/1999 Sorted By Vehicle**  
FULL REPORT

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**All Transactions From 01/01/1999 To 03/25/1999 Sorted By Driver**  
FULL REPORT

Printed On: 3/25/99 9:05:08AM Page: 1 Of 1

Transact#	Date	Time	Driver	Driver Dept	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity
Fuel Type	Fuel Pos	MPG	Cost/Mile	Price/Unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Driver Dept Description	Vehicle Dept Description	Fuel Type Description		
Driver: 000000243													
0030	01/05/1999	17:02	000000243	000	0000071688	001	002	0000000000	0000130583	001	001	YES	29.38
002	003	006.6	000.00	00.000	000073	005499	000	716887					
0039	01/09/1999	16:59	000000243	000	0000071688	001	002	0000000000	0000130873	001	001	YES	.30
002	003	005.6	000.00	00.000	000073	005499	000	71688					
0049	01/08/1999	17:02	000000243	000	0000071688	001	002	0000000000	0000130878	001	001	YES	34.00
002	004	000.1	000.00	00.000	000073	005499	000	71688					
0055	01/13/1999	16:59	000000243	000	0000071688	001	002	0000000000	0000131117	001	001	YES	.10
002	003	2390.0	000.00	00.000	000073	005499	000	71688					
0056	01/13/1999	17:02	000000243	000	0000071688	001	002	0000000000	0000131117	001	001	YES	31.00
002	004	000.0	000.00	00.000	000073	005499	000	71688					
0072	01/21/1999	16:59	000000243	000	0000071688	001	002	0000000000	0000131414	001	001	YES	34.20
002	004	008.8	000.00	00.000	000073	005499	000	71688					
0086	01/26/1999	17:03	000000243	000	0000071688	001	002	0000000000	0000131708	001	001	YES	35.18
002	003	007.5	000.00	00.000	000073	005499	000	71688					
0099	02/01/1999	17:03	000000243	000	0000071688	001	002	0000000000	0000131996	001	001	YES	35.58
002	003	1781.4	000.00	00.000	000073	005499	000	71688					
Fuel Type: 002													284.30
Total Sale For Driver: 000000243													\$ .00
Total Quantity For Driver: 000000243													284.30

## PC Reports Will Include All Transaction Data Plus Descriptions of:

- Vehicle
- Vehicle Department
- Vehicle Class
- Driver
- Driver Department
- Fuel Type

The modular design of the AFC makes it easily accessible for installation and upgrades. It has all of the features you need along with durability and serviceability.

### **Clear Keypad**

Clear backing on the keypad allows you to easily test key operation

### **Heated Display**

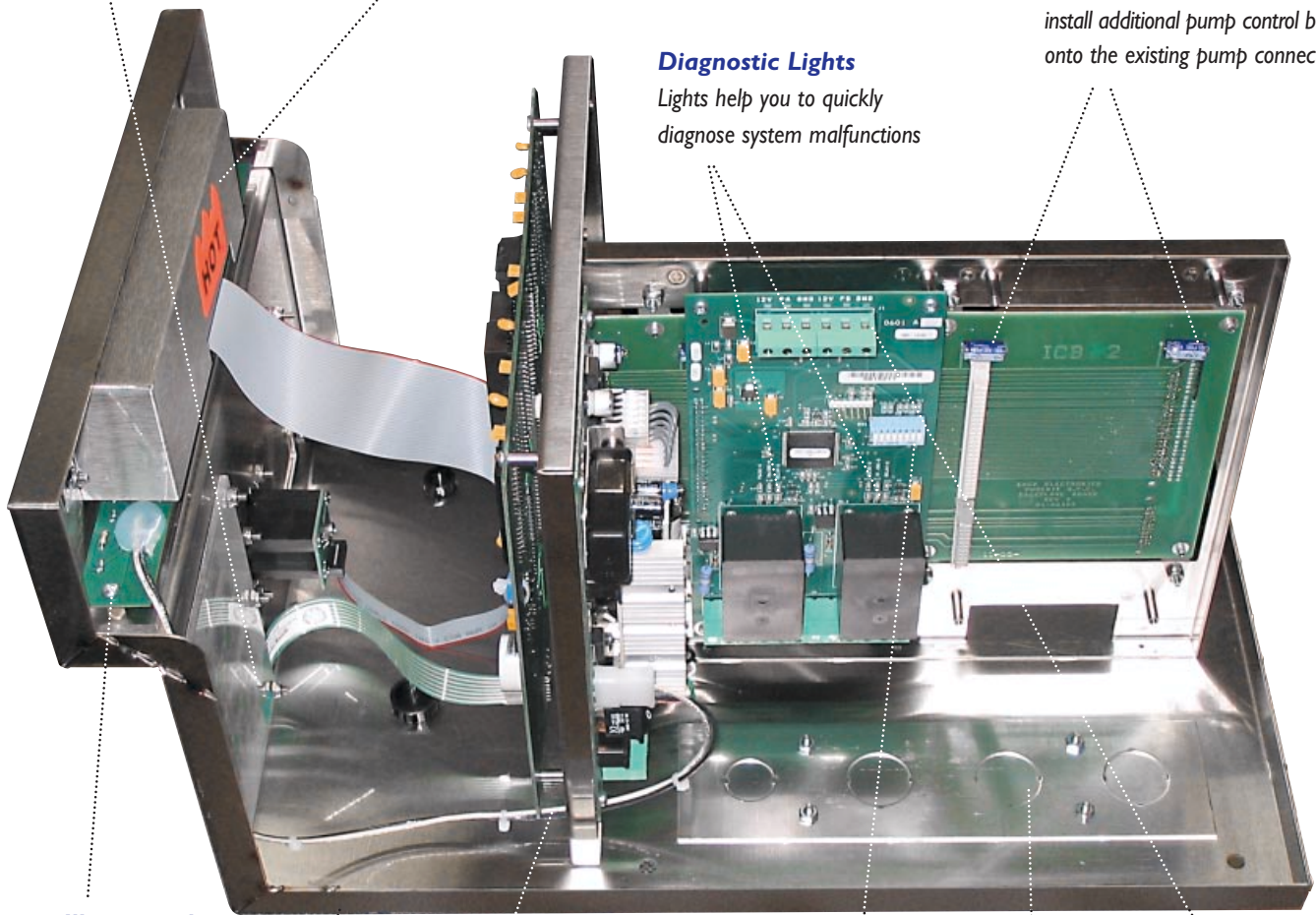
Ensures operation in cold temperatures

### **Pump Control Connections**

Adding more hoses is easy. Simply install additional pump control boards onto the existing pump connectors

### **Diagnostic Lights**

Lights help you to quickly diagnose system malfunctions



### **Illuminated Keypad**

LED's illuminate the keypad for continued use during night time operation

### **Fewer Cables**

Fewer cable connections reduce system failures, simplifying system installation and board replacement

### **System Bypass**

Manual override switches allow the user to bypass the card system if the unit is not operational

### **Prepunched Conduit**

Installation time is significantly reduced by prepunching conduit entry plates

### **Field Wiring Terminals**

Clearly marked terminals make the system easy to install and service

### **Stainless Steel**

The stainless-steel cabinet and pedestal withstand the harshest environment



# AFC Fuel Control System

## Operational Features

- Program via PC
- Track declining tank inventory, with low-level alert and programmable pump deactivation levels
- Access the AFC with the traditional magnetic card, system keypad or the durable DuraKey
- 80-column dot-matrix printer journals every transaction
- Lithium battery protects stored transaction data during power losses
- Weather shields guard card/DuraKey reader ensuring uninterrupted operation in the most inclement weather
- Four-line, 20-character back-lit display
- Standard display heater ensures normal operation in cold temperatures
- 48-inch stainless-steel pedestal (121.92 cm)
- Scalable pulser ratio 1 : 1 to 65,000 : 1
- Selectable maximum fuel by fueling position
- Selectable automatic shift change
- Deactivation on pulser failure
- Department discounts

## Capacity

- 255 departments
- 16 fuel types
- Up to 4 fueling positions
- 999 stored transactions

## Specifications

- Enclosure Dimensions: 10"H x 12"W x 20"D  
(25.4 cm x 30.4 cm x 50.8 cm)
- Operating Temperature -40° F (-40° C) to 158° F (70° C)
- Input Power 120/240 VAC, 50/60 Hz, 100 Watts
- Output Relay Rating
  - Motor Duty 1 HP, 120 VAC 3 HP, 240 VAC
  - Pulser Supply 12 VDC, 2.5W max
  - Hose Capacity 2 or 4-Hose maximum
  - Card/DuraKey Capacity 10,000 Keys
  - Governing Standards ETL

## Warranty

- 1 year on parts only

## Installation and Service Features

- Pre-punched conduit termination panel simplifies installation
- Field wiring terminals are clearly marked and easily accessible in the spacious enclosure
- Modular design makes servicing the AFC easy. Simply identify the problem and replace one of its subassemblies
- Fewer cable connections minimize maintenance and decrease service time
- Manual override switches allow you to bypass the card system if the unit is not operational
- 4000 ft 485 communication between card reader and printer PC adapter

## Fuel Management

- Fuel type and assignment report
- Fuel type pricing
- Provides security against product theft
- Totals by fuel type and fuel position
- Totals by shift
- Grand totals
- Running totals
- Automatically keeps track of all transactions by vehicle, driver, and department, eliminating manual record keeping
- Accumulates information on card/DuraKey numbers, date and time of access, hose number, and amount fueled
- Report fuel usage by card/DuraKey, hose, product type, department, driver, and vehicle

## Fleet Features

- Odometer reasonability
- Vehicle classification
- Maintenance alert
- Maintenance lockout
- Restrict fueling by fuel type or quantity
- Programmable expiration date for vehicle class, departments, and cards/DuraKeys
- Taxable and nontaxable fuel totals
- Programmable user prompts
- Program DuraKey at AFC, or use the optional DuraKey Encoder

## How To Order

- | ■ Description             | Part #  |
|---------------------------|---------|
| AFC System - 2 Hose       | AFC1002 |
| AFC System - 4 Hose       | AFC1004 |
| ■ Options:                |         |
| Card Reader               | AFC2025 |
| DuraKey Encoder Model AFC | AFC2030 |



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