



PC Software for Series 1000

PC/1000 User's Guide

Computer Programs and Documentation

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This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Approvals

Gasboy, Greensboro, is an ISO 9001:2000 registered facility.

Underwriters Laboratories (UL):

UL File#	Products listed with UL
MH4314	All dispensers and self-contained pumping units
MH6418	Power operated Transfer Pump Models 25, 25C, 26, 27, 28, 72, 72S, 72SP, 72X, 73 and 1820
MH7404	Hand operated Transfer Pump Models 1230 Series, 1243 Series, 1520 and 1720 Series
MH10581	Key control unit, Model GKE-B Series Card reader terminals, Models 1000, 1000P Site controller, Model 2000S CFN Series Data entry terminals, Model TPK-900 Series Fuel Point Reader System

New York City Fire Department (NYFD):

NYFD C of A #	Product
4823	9100A, 9140A, 9152A, 9153A, 9800A, 9840A, 9850A, 9852A, 9853A, 9140
4997	9822A, 9823A
5046	9100Q, 9140Q, 9152Q, 9153Q, 9800Q, 9840Q, 9852Q, 9853Q
5087	8753K, 8853K, 9153K, 9853K (restricted to diesel and non-retail gasoline sales)
5091	8752K, 9152K
5129	9122K, 9123K, 9822K, 9823K

California Air Resources Board (CARB):

Executive Order #	Product
G-70-52-AM	Balance Vapor Recovery
G-70-150-AE	VaporVac

National Conference of Weights and Measures (NCWM) - Certificate of Compliance (CoC):

Gasboy pumps and dispensers are evaluated by NCWM under the National Type Evaluation Program (NTEP). NCWM has issued the following CoC:

CoC#	Product	Model #	CoC#	Product	Model #	CoC#	Product	Model #
95-179	Dispenser	9100 Retail Series, 8700 Series, 9700 Series	91-019	Dispenser	9100 Commercial Series	05-002	Atlas	8700K, 8800K, 9100K, 9200K, 9800K
95-136	Dispenser	9800 Series	91-057	Controller	1000 Series FMS, 2000S-CFN Series			

Patents

Gasboy products are manufactured or sold under one or more of the following US patents:

Dispensers

5,257,720

Point of Sale/Back Office Equipment

D335,673

Additional US and foreign patents pending.

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1 – Introduction

Purpose

The Gasboy® PC/1000 User's Guide is meant to assist you in using the PC/1000 software. It contains the system specifications, installation instructions, some information on getting started and basic information on some terms associated with PC/1000 and its usage. The Users Guide is not intended to be an operation manual for the software. For specific questions on the functionality of the software, refer to the Help menu in your PC/1000 software package.

Intended Users

Individuals who have purchased and are authorized to use Gasboy PC Software for Series 1000 including site personnel and Authorized Service Contractors (ASCs).

Related Documents

Document Number	Title	GOLD Library
C08923	Series 1000 Fuel Management System Operation Manual	Gasboy Fuel Management Products
C08926	Series 1000 Cardless Fuel Management System Operation Manual	Gasboy Fuel Management Products
C36104	PC/1000 Version 1.1.0.8 Patch	Gasboy Fuel Management Products
MDE-4480	Series 1000 FleetKey System Operation Manual	Gasboy Fuel Management Products

Abbreviations and Acronyms

Acronym	Definition
ASCII	American Standard Code for Information Interchange
CARB	California Air Resources Board
CD	Compact Disk
CD-ROM	Compact Disk-Read Only Memory
CoC	Certificate of Compliance
DOS	Disk Operating System
FCC	Federal Communications Commission
MB	Megabyte
ME®	Windows Millennium Edition
NCWM	National Conference of Weights and Measures
NT®	Windows New Technology
NYFD	New York City Fire Department
PC	Personal Computer
RAM	Random Access Memory
ROM	Read-only Memory
VGA	Video Graphics Adapter
XP®	eXPerience (Microsoft Windows XP)

2 – Installing and Uninstalling PC/1000

System Specifications

Given below are the minimum specifications for PC/1000 software installation. They may differ slightly from the specifications printed on your CD-ROM insert, because additional research has shown that these enhanced specifications will improve the performance of your PC software.

Fuel Management System

The Fuel Management system is configured to work with the following:

- Gasboy Series 1000, Version 4 or higher - Systems configured to work with CFN Network cards or System A cards **are not** supported.
- FleetKey System (any version) - All fuel management systems being monitored by PC/1000 must have the same configuration. If you have multiple system types (that is, Series 1000 card or FleetKey system running different configurations), you must have separate PC/1000 programs for each type.

Personal Computer

The Personal Computer (PC) is configured to work with the following:

- Microsoft Windows 95, 98, ME, 2000 Professional, Windows NT with Service Pack 4 or higher, or Windows XP (Home or Professional).

IMPORTANT INFORMATION
This software has been designed and tested to work with a PC using Windows English (United States) regional settings, where the decimal point character is used as the decimal separator. Ensure that your system is set up properly before using this software. Gasboy cannot guarantee that the software will work correctly using other regional settings.

- Pentium or faster processor
- 16 MB RAM required, 32 MB recommended
- 60 MB hard disk space available
- 640 x 480, 800 x 600, 1024 x 768, 256-color or higher VGA display (See [Note](#))
- Mouse
- CD-ROM
- Modem for dial-up connection to Series 1000 Fuel Management System or serial port and direct connect cable for direct connection to Series 1000 Fuel Management System
- Windows-compatible Laser or Inkjet printer (See [Note](#))

Note: If you encounter problems with this software, check if you have the latest video and printer drivers installed on your computer before you contact Technical Support.

Installing PC/1000

Instructions for installing PC/1000 on systems operating on Microsoft Windows 95, 98 or ME are given below. If you are using Windows 2000 Professional, Windows NT, or Windows XP Professional, ensure that you follow the additional instructions in the section that follows. To install PC/1000, proceed as follows:

- 1 Turn on your computer, and start Microsoft Windows.
- 2 Insert the Gasboy PC/1000 software CD-ROM into your CD-ROM drive.
- 3 Click the **Start** menu.
- 4 Click **Run**.
- 5 Type **D:\Setup** (On most computers, the CD-ROM drive is D. If your CD-ROM drive is not D, type the appropriate letter).
- 6 Click **OK**.
- 7 Follow the on-screen instructions for installation.

Modem Notice

When you add, edit or delete modems in the modem database using **Setup/Communications Parameters**, the modem information is stored in a file called **GBModem.ini**. This file is located in the **Program Files\Common Files\Gasboy** directory on your PC. If, at any time, you choose to uninstall the PC/1000 software, the **GBModem.ini** file will be removed and any changes that have been made to the modem information will be lost. Before uninstalling PC/1000, ensure that you save a copy of **GBModem.ini**, if you want to save your changes.

In version 1.1.0.8, three new Zoom modem configurations were added to PC/1000. If you uninstalled a prior version of PC/1000, saved the **GBModem.ini** file, and have installed version 1.1.0.8, you have the following choices:

- If you did not make any changes to the modems in your previous package, simply install the new software and the new **gbmodem.ini** file will be installed.
- If you made changes to the modems and saved a copy of **GBModem.ini** before uninstalling and you are not using one of the new Zoom modems, install the software, then copy the file that you saved into the **Program Files\Common Files\Gasboy** directory. This file will replace the new file that was installed with version 1.1.0.8.
- If you made changes to the modems and saved a copy of **GBModem.ini** before uninstalling and you also want to use one of the new Zoom modems, install the new version, then use an editor to open the saved **GBModem.ini** file and the **GBModem.ini** file in **Program Files\Common Files\Gasboy** directory. Cut and paste content to add any changes from the saved **GBModem.ini** file into the **GBModem.ini** file in the **Program Files\Common Files\Gasboy** directory.

If you are using the patch to update your software to version 1.1.0.8, follow the patch instructions given in “C36104 PC/1000 Version 1.1.0.8 Patch” for details on the **GBModem.ini** file.

Special Instructions for Windows 2000 Professional, Windows NT, and Windows XP Professional

Special instructions to be followed while installing the PC/1000 application on Windows 2000 Professional, Windows NT, and Windows XP Professional operating systems are provided below.

To run the PC/1000 software on a Windows NT PC, you must be running the Windows NT 4.0 (Service pack 4 or higher) operating system. If you are unsure of which operating system your PC is using, proceed as follows:

- 1 Click **Start > Settings > Control Panel**. The Control Panel dialog box appears.
- 2 Double-click the **System** icon. Your operating system version is displayed on the **General** tab of the **System Properties** program.

To install and execute PC/1000 software on Windows NT, Windows 2000 Professional or Windows XP Professional, you **must** be an Administrator User or a User who is a member of the Administrator Group or a member of the Power Users. If you are not sure how to log-on as one of these Users, contact your PC support personnel for details.

Using PC/1000 for the First Time

If you are using PC/1000 for the first time, proceed as follows:

- 1 Install the PC/1000 software by following the instructions on the inside of the jacket cover of the Gasboy Fuel Management Software CD-ROM.
- 2 Start up the PC/1000 software. Click **Start > Programs > PC/1000**.
- 3 When the program starts, do one of the following:
 - Register the software (if you purchased a license).
 - Run it as a fully functional 30-day demo and register it later.
- 4 A screen appears, which displays information on the PC/1000 software package setup. Click **Yes** to print a copy of the PC/1000 Setup form.

*Note: If you do not print this form now, you can print it at another time using an editor, such as Wordpad. The file is called **SetupForm.txt** and can be found in the **Help** subdirectory of PC/1000.*

- 5 Fill out all applicable information on the form before attempting to use any of the package communication functions.

Note: If you are uncertain about any information requested on the Setup form, contact your Gasboy representative to obtain clarification.

- 6 Once you have finished filling out the Setup form, you can enter your Setup information into the PC/1000 package by entering the items under the Setup menu on the PC/1000 Main Page. Refer to the package online help system for additional information on setting up the PC/1000 software.

*Note: To assist you in Setup, the System Types Setup form contains a button called **AutoConfig**. When you click this button, the PC software will contact your 1000 site, retrieve its settings, and automatically insert them into the PC/1000 package.*

Uninstalling PC/1000

Note: Before uninstalling, refer to [Note on page 4](#).

Windows 95/98/ME

If you are using Windows 95/98, proceed as follows:

- 1 If PC/1000 for Windows is running, close the application. Shut down the Interbase Guardian (appears as a green triangle positioned behind a tower styled PC) by positioning the mouse pointer over the Interbase Guardian icon present in the lower right corner of the Windows Taskbar. Right-click the icon to display the pop-up menu items. Shut down the Interbase Guardian by selecting the Interbase Shutdown option. The Interbase Guardian icon will disappear.
- 2 Click **Start > Settings > Control Panel**. The Control Panel dialog box appears. Double-click **Add/Remove Programs** in the Control Panel. Select PC 1000 from the list of available programs to remove and then click **Add/Remove**. Follow the on-screen instructions.

*Note: On the **Remove Shared file?** dialog box, click **Yes to All** to ensure proper removal of PC/1000 software.*

Windows 2000 Professional/Windows NT/Windows XP Professional

- 1 You must be logged-on to your PC as an **Administrator User** or a **User** who is a **member** of the **Power Users** or **Administrator Group** to uninstall PC/1000.
- 2 If PC/1000 for Windows is running, close the application.
- 3 Stop the Interbase Guardian and Interbase Server Services.
 - For Windows NT: Click **Start > Settings > Control Panel > Services**.
 - For Windows 2000 Professional: Click **Start > Settings > Control Panel > Administrative Tools > Services**.
 - For Windows XP Professional: Click **Start > Control Panel > Performance and Maintenance > Administrative Tools > Services**.
- 4 Select **Interbase Guardian** from the list, and click **Stop**. Follow the on-screen instructions. To stop the Interbase Server, select **Interbase Server** from the list and then click **Stop**. Follow the on-screen instructions.
- 5 Remove PC/1000 using Add/Remove Programs. Double click **Add/Remove Programs** in the Control Panel. Select PC 1000 from the list of available programs to remove, and click **Add/Remove**. Follow the on-screen instructions.

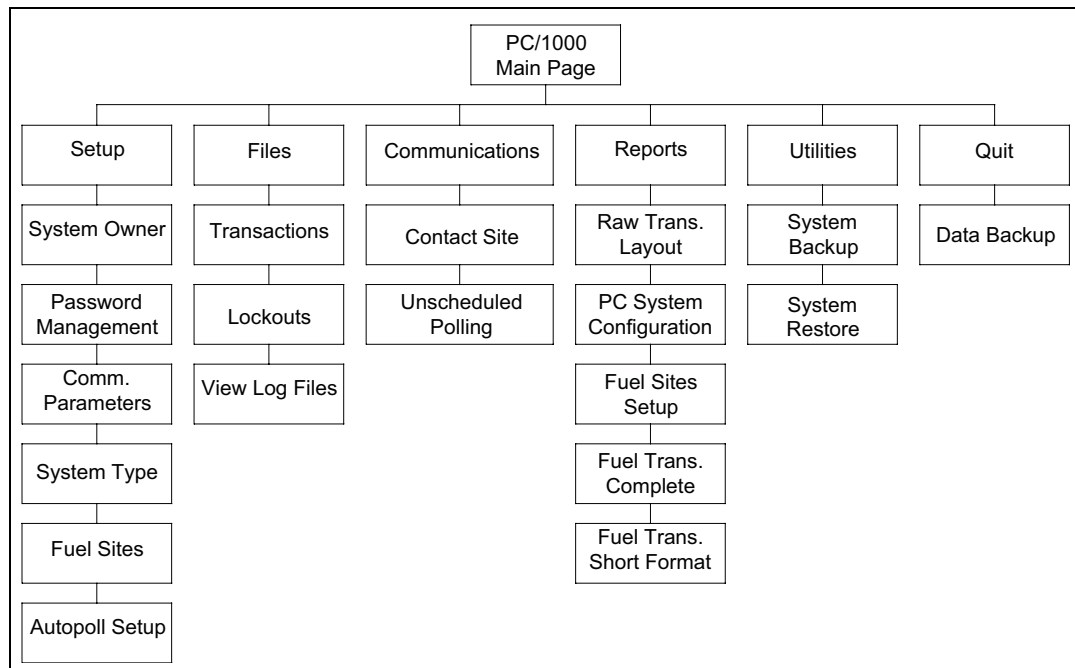
*Note: On the **Remove Shared file?** dialog box, click **Yes to All** to ensure proper removal of PC/1000 software.*

3 – PC/1000 Basics

General

This section contains a visual overview of the software, a general glossary of terms and a set of tasks to follow for using the PC/1000 software.

A Visual Overview



Terms to Know

AutoConfig

The System Types Setup form contains a button called **AutoConfig**. When you click this button, the PC software contacts your Series 1000 or FleetKey site, retrieves its system type settings, and automatically inserts them into this form. All systems being monitored by PC/1000 must have the same configuration. You must have set up communications with your fuel site prior to using this option. You must have at least one transaction loaded at the site.

Fuel Site Transactions

Each time a User attempts to obtain fuel at a fuel site, a transaction is generated. Successful as well as error transactions may be generated. Transactions may also be generated for events such as a fuel delivery or dipstick reading. Typically, raw fuel transactions are accumulated at your Series 1000/FleetKey site. You use the PC/1000 package to poll or collect the raw fuel transactions from the Fuel Management System, copy them onto the PC for viewing and create a RAWTRANS.DAT file for use with other applications.

Polled raw transactions are written to the PC database and stored as part of the RAWTRANS.DAT file. Transactions that contain bad data that cannot be stored in the PC database are written to a text file called BADTRANS.DAT.

Lockout

Lockout is the process of preventing access to the fuel site. Each fuel site should already have a lockout procedure in place. The fields used for lockout on the PC software match whatever is configured at the Fuel Management System. Lockout on a Series 1000 or FleetKey is by the card or key field and possibly another field, if you have dual lockout. You lock out or activate numbers from within the PC/1000 package and then send these changes to your Series 1000 fuel sites as lockout updates during a polling session.

PC/1000 handles lockouts as follows:

- All lockout changes must be done on the PC (using **Files > Lockout** form) into either the card/key or other lockout file. You can make additions, deletions, or changes. If you do not wish to maintain lockouts using the software, you could use an editor to enter lockouts into an ASCII file.
- When the Lockout Updates polling action is selected for an unscheduled polling or autopoll session, the lockout updates are sent to the site via a lockout update file. The lockout update files on the PC are then cleared. If polling is unsuccessful, the lockout updates are not sent and remain on the PC until the next polling attempt (either at an autopoll time, or at an unscheduled polling attempt).

Log Files

A polling log is a listing that indicates the outcome of a polling session. It contains messages for each site polled stating the date, time and number of transactions polled, and the status of all polling actions. PC/1000 stores polling logs from the last seven polling sessions. These polling logs are named **SESSION1.PLG** through **SESSION7.PLG**. You can have the poll log from the current session print automatically by clicking **Automatically Send Polling Results to Printer** on the Setup/Communications Parameters form or print polling logs later from the View Log Files form on the Files menu. The most recent log is highlighted by a checkmark.

Each polling log contains date, time polling started, a list of error (status) codes, and the following:

- **Site number** – number of the site polled
- **Description** – description of the site polled
- **Time polling started** - the time at which the polling started.
- **Connect status** – contains OK if connection to site is completed successfully or an error code, if unsuccessful.
- **Trans status** – contains OK if transaction polling completed successfully, an error code if unsuccessful, or dashes indicating that the action was not selected or was not executed.
- **First Trans** – contains number of first transaction polled.
- **Last Trans** – contains number of last transaction polled.
- **Lockout Status** – contains OK if lockouts were sent successfully, an error code if unsuccessful, or dashes indicating that the action was not selected or was not executed.

Polling (Autopolling, Unscheduled)

Polling is the process by which the PC software contacts a Fuel Management System and extracts the raw transactions from the Fuel Management System at the site. Another action, updating lockouts, may also be performed at this time. There are two polling options available through the Gasboy PC software: autopolling and unscheduled polling.

Autopolling is the easiest and most automatic way to poll your sites on a regular basis. You can include all of your sites, or just selected sites. When you set up your Fuel Sites, each site that you wish to include in the Autopolling process must have the Autopoll Flag field set to YES. You can set the PC software to autopoll up to three times each day when the PC will automatically attempt to perform your selected polling actions. If connection cannot be established with a site, PC/1000 continues polling other sites and then makes two more attempts to re-poll the site. If an error occurs during any polling action, the connection is terminated and no further actions are performed for that site. Upon completion, a polling log is generated.

Unscheduled polling is a manual polling option that allows you to poll one or more sites at any time (on demand). Because autopolling is performed only on sites where the Autopoll Flag is set to YES, if you wish to poll other fuel sites (or even one typically scheduled for autopolling), you would use unscheduled polling. The available polling actions are identical to those you can select under autopolling.

RAWTRANS

When transactions are polled from your fuel sites, they are stored directly in the PC/1000 database. The default setting for the PC software provides automatic generation of a RAWTRANS file upon completion of polling (Communications Parameters form). The RAWTRANS file contains all transactions from the current polling session and is used to generate reports and to allow you to process your transactions, using another application. There are two formats for the RAWTRANS file: Gasboy Standard Windows format and DOS format. If you are a new user to Gasboy PC software, use the Gasboy Standard Windows format. If you are upgrading from an existing DOS-based PC package, choose the DOS format to match the file currently in use. If you have this option disabled, no RAWTRANS file is generated and transactions are stored only to the database.

When you perform any operation affecting transactions (add, edit, or delete), you alter the transactions in the database. If you have Automatic generation enabled, you are given the option to include any edited or manually entered transaction in the next version of the RAWTRANS file. Your raw fuel transaction file is created using the Gasboy Standard Windows format [your file is named RAWTRANS.DAT (DOS format filename is RAWTRANS)]. The Gasboy Standard Windows format is viewable in the online help from the **Files > Transactions** menu.

Reports


Five reports are available: Raw Transactions Layout, PC System Configuration, Fuel Sites Setup, Fuel Site Transactions, and Fuel Site Transactions-Short format. Depending on the report type, there are user-selectable configuration options that can be applied to customize the report and up to four output options: Preview, Print, Disk Unformatted (comma-delimited), Disk Formatted (Crystal Report):

- **Preview** is available for all types and displays the report on your screen. A Print button is available if you decide to print it.
Note: A default printer must be loaded on your PC to preview or print reports.
- **Print** is available for all types and sends the report directly to the printer.
- **Disk (Comma Delimited File)** is available only with the Fuel Transactions report and outputs a comma-delimited file that you can use in external applications. The format of this file is based on the sort by criteria you specify. There is also an option to output this data with a header line. This is useful for determining the layout of the data when preparing it for external use. This format is not available when Summary is selected as an output selection.
- **Disk (Crystal Report File)** outputs the report in Crystal report viewable format to a default disk file name or a file name that you specify. Crystal Report files are stored by default in the Exports subdirectory of your PC software, but you can change this destination if desired.
- In addition to the output options, the Fuel Transactions report can be configured for **Details** or **Summary**. Details will provide the entire transaction; summary will provide totals only.

Reports Previewer

You can view a saved report when the PC/1000 software is not running by using the program **GSBPreviewer.exe**. This report viewer is present on your PC/1000 software CD under the self-extracting file name **GSBPrv.exe**. Saved reports are stored by default in the Exports subdirectory of your PC software, but can be moved elsewhere, if desired.

To use the Report Viewer

- 1 From Windows Explorer, navigate to the directory where the **GSBPreviewer.exe** is located. Double click to start the viewer.
- 2 Select **File > Open**.
- 3 In the Open dialog box, navigate to the directory where the saved reports are stored (that is, \Gasboy\PC 1000\Exports).
- 4 Click the desired report file.
- 5 Click **Open**.
- 6 View as desired.
- 7 Click  to close the report file.
- 8 Select **File > Exit** to close the Report Previewer.

Using PC/1000

Given below are some instructions on using PC/1000:

- Explore the package. Select the icons on the Main Page (Setup, Files, Communications, and Utilities) and familiarize yourself with what each one does. Each Main Page icon brings up a menu containing functions that you can perform. Each menu item brings up a form that you can use to define your application or perform operations on your data. Each form has a Help button which displays Help screens pertaining to the form or topic displayed. If you get into an area of the package and you do not know how to proceed, click **Help** for more information.
- Complete the **Setup/System** Types form.
- Go to the **Setup/Fuel** Sites form and verify that all your fuel site information is correct. If it is not, make any changes at this time.
- If you intend to use autopolling, go to the **Setup/Autopoll** Setup form and select your options.
- Go to the **Files/Lockouts** form to enter any lockout information updates you wish to send down to your sites.
- Go to the **Communications/Contact Site** form and ensure that you can successfully contact all your fuel sites.
- Once you begin using your PC/1000 package on a regular basis, we highly recommend that you set up a schedule for performing regular backups of your PC/1000 data. Backups can be performed from the Utilities form and also when you exit the PC/1000 software.

Recommended Daily Sequence

The following table suggests a sequence of events that should be done on a daily basis. Your actual site procedures may differ.

Selection Sequence	Task
Files/View Log Files	Check the appropriate polling log file to ensure that all fuel sites which were set up to be autopollled were successfully polled.
Communications/Unscheduled Polling	Perform manual polling of those fuel sites that were unsuccessfully autopollled or not polled at all.
Communications/Contact Site	Perform fuel site maintenance.
Utilities/System Backup	Perform a Backup of your package data.

Gasboy Standard Windows RAWTRANS Layout

Length	Starting Column	Type	Series 1000	
			Tran	Field
Description				
1	1	N	✓	System Type
6	2	N	✓	Site ID Number
6	8	N	✓	Transaction Number
4	14	N		CFN Sequence Number, from Site Controller
1	18	N		CFN Status Code
8	19	N	✓	Total price in hundredths
1	27	N		CFN Account to charge
1	28	N		Transaction type
2	29	N	✓	Product Code
4	31	N	✓	Unit price in thousandths
8	35	N	✓	Quantity in thousandths
8	43	N	✓	Hours in tenths
8	51	N	✓	Odometer in tenths
2	59	N	✓	Pump Number
8	61	N	✓	Date (YYYYMMDD)
4	69	N	✓	Time (HHMM)
2	73	N	✓	Error code
6	75	A		CFN Authorization number
6	81	N	✓	Series 1000 Card Number
6	87	N	✓	Key1/VM
6	93	N	✓	Key2
2	99	N		Account Field Length
30	101	A	✓	User defined ID fields
20	131	N	✓	Manual entry number
1	151	A		CFN Device type
1	152	A		CFN Device drop
1	153	N		CFN # of digits after quantity decimal point
1	154	N	✓	FP transaction type
20	155	A		CFN Issuer field
4	175	N		CFN Expiration date
4	179	N		CFN Physical record number
4	183	N	✓	MPG in tenths
4	187	N	✓	Miles traveled
5	191	N		TopKAT Vehicle number
4	196	N		TopKAT Vehicle department number
4	200	N		TopKAT Manual entry department number
1	204	N		TopKAT Pulse rate
2	205	N		TopKAT Tank number
6	207	N		TopKAT Cum. Vehicle quantity in tenths
6	213	N		TopKAT Cum. manual entry quantity in tenths
20	219	N		Future expansion

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7300 West Friendly Avenue · Post Office Box 22087
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Phone 1-800-444-5529 · <http://www.gasboy.com> · Printed in the U.S.A.
MDE-4488A PC/1000 User's Guide · April 2008