



CFN Series

Unitec® PC Interface

For Site Controller III Version 3.6 and Later

MDE-4695
(formerly C35924)

Computer Programs and Documentation

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Federal Communications Commission (FCC) Warning

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
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

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.

Trademarks

Non-registered trademarks

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Keytrol®
Slimline®

Additional US and foreign trademarks pending.

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1 – Introduction

Purpose

This manual provides instructions to connect a CFN Series Site Controller (SC) (Version 3.6 and later) to the Unitec® POS 4000 Car Wash Controller using a Unitec PC Interface.

Overview

The Unitec PC interface from the SC III PC port to the Unitec POS 4000 Car Wash Controller, uses RS-232 communication. This interface is connected directly to the Car Wash Controller, and eliminates the need for the Gasboy® SDI Interface Box.

The Unitec unit must be equipped with Uni-CAM Mark VII option, version 6.2 hardware, unless otherwise specified by the Unitec specification. Set the Unitec unit for 2400 baud operation, on the Unitec Serial Port. Gasboy supports the Uni-CAM protocol used by Unitec. For the appropriate settings, refer to Unitec documentation.

Related Documents

CFN III - Version 3.4 and Later

Document Number	Title	GOLD Library
C35923	Point of Sale and Shift Change, Version 003	Gasboy CFN Series Controllers and POS
MDE-4298	CFN Series SC III Installation Manual	Gasboy CFN Series Controllers and POS
MDE-4299	CFN Series Profit Point Installation Manual	Gasboy CFN Series Controllers and POS
MDE-4355	Profit Point Clerk's Manual	Gasboy CFN Series Controllers and POS
MDE-4356	Profit Point Reference Manual	Gasboy CFN Series Controllers and POS
MDE-4479	CFN III Quick Reference Guide Version 3.4	Gasboy CFN Series Controllers and POS
MDE-4871	CFN III Manager's Manual for Windows XP® Embedded Version 3.6	Gasboy CFN Series Controllers and POS
MDE-4872	CFN Series CFN III Configuration Manual for Windows XP Version 3.6	Gasboy CFN Series Controllers and POS
MDE-4873	CFN Series Site Controller III Start-up Manual for CFN III Versions 3.6 and Later	Gasboy CFN Series Controllers and POS
MDE-4874	CFN Series NBS (GL3) Credit and Debit Card Network -Version 1.4.0.0 and Later, for CFN III Versions 3.6 and Later	Gasboy CFN Series Controllers and POS

Pump Interface

Document Number	Title	GOLD Library
MDE-4337	CFN Series Gilbarco® CRIND® Interface for SC III with Windows NT®	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4501	Wayne® CAT PC Interface for Site Controller III with Windows NT	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4559	Insight Interface Installation Guide	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4624	Gasboy CFN Series Tokheim® Pump PC Interface for CFN III with Windows NT or XPE	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4634	CFN Series Gilbarco Pump PC Interface	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces
MDE-4651	Wayne Pump PC Interface for SC III Windows NT	Gasboy CFN Series Networks, Card Handlers, and Pump Interfaces

Abbreviations and Acronyms

Term	Description
CFN	Cash Flow Network
ICR	Island Card Reader
PC	Personal Computer
PCU	Pump Control Unit
PLU	Price Lookup Unit
POS	Point Of Sale
SC	Site Controller

Warranty

For information on warranty, refer to MDE-4255 Gasboy's Warranty Policy Statement. If you have any warranty-related questions, contact Gasboy's Warranty Department at its Greensboro location.

2 – Important Safety Information

This section introduces the hazards and safety precautions associated with installing, inspecting, maintaining or servicing this product. Before performing any task on this product, read this safety information and the applicable sections in this manual, where additional hazards and safety precautions for your task will be found. Fire, explosion, electrical shock or pressure release could occur and cause death or serious injury, if these safe service procedures are not followed.

Preliminary Precautions

You are working in a potentially dangerous environment of flammable fuels, vapors, and high voltage or pressures. Only trained or authorized individuals knowledgeable in the related procedures should install, inspect, maintain or service this equipment.

Emergency Total Electrical Shut-Off

The first and most important information you must know is how to stop all fuel flow to the pump/dispenser and island. Locate the switch or circuit breakers that shut off all power to all fueling equipment, dispensing devices, and Submerged Turbine Pumps (STPs).

WARNING



The EMERGENCY STOP, ALL STOP, and PUMP STOP buttons at the cashier's station WILL NOT shut off electrical power to the pump/dispenser. This means that even if you activate these stops, fuel may continue to flow uncontrolled.



You must use the TOTAL ELECTRICAL SHUT-OFF in the case of an emergency and not the console's ALL STOP and PUMP STOP or similar keys.

Total Electrical Shut-Off Before Access

Any procedure that requires access to electrical components or the electronics of the dispenser requires total electrical shut off of that unit. Understand the function and location of this switch or circuit breaker before inspecting, installing, maintaining, or servicing Gasboy equipment.

Evacuating, Barricading and Shutting Off

Any procedure that requires access to the pump/dispenser or STPs requires the following actions:



- An evacuation of all unauthorized persons and vehicles from the work area
- Use of safety tape, cones or barricades at the affected unit(s)
- A total electrical shut-off of the affected unit(s)

Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call a Gasboy Authorized Service Contractor or call the Gasboy Service Center at 1-800-444-5529. It is imperative to your safety and the safety of others to understand the procedures before beginning work.

Follow the Regulations

Applicable information is available in National Fire Protection Association (NFPA) 30A; *Code for Motor Fuel Dispensing Facilities and Repair Garages*, NFPA 70; *National Electrical Code (NEC)*, Occupational Safety and Hazard Association (OSHA) regulations and federal, state, and local codes. All these regulations must be followed. Failure to install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards may lead to legal citations with penalties or affect the safe use and operation of the equipment.

Replacement Parts

Use only genuine Gasboy replacement parts and retrofit kits on your pump/dispenser. Using parts other than genuine Gasboy replacement parts could create a safety hazard and violate local regulations.

Safety Symbols and Warning Words

This section provides important information about warning symbols and boxes.

Alert Symbol



This safety alert symbol is used in this manual and on warning labels to alert you to a precaution which must be followed to prevent potential personal safety hazards. Obey safety directives that follow this symbol to avoid possible injury or death.

Signal Words

These signal words used in this manual and on warning labels tell you the seriousness of particular safety hazards. The precautions below must be followed to prevent death, injury or damage to the equipment:



DANGER: Alerts you to a hazard or unsafe practice which will result in death or serious injury.



WARNING: Alerts you to a hazard or unsafe practice that could result in death or serious injury.



CAUTION with Alert symbol: Designates a hazard or unsafe practice which may result in minor injury.

CAUTION without Alert symbol: Designates a hazard or unsafe practice which may result in property or equipment damage

Working With Fuels and Electrical Energy

Prevent Explosions and Fires

Fuels and their vapors will explode or burn, if ignited. Spilled or leaking fuels cause vapors. Even filling customer tanks will cause potentially dangerous vapors in the vicinity of the dispenser or island.

No Open Fire



Open flames from matches, lighters, welding torches or other sources can ignite fuels and their vapors.

No Sparks - No Smoking



Sparks from starting vehicles, starting or using power tools, burning cigarettes, cigars or pipes can also ignite fuels and their vapors. Static electricity, including an electrostatic charge on your body, can cause a spark sufficient to ignite fuel vapors. Every time you get out of a vehicle, touch the metal of your vehicle, to discharge any electrostatic charge before you approach the dispenser island.

Working Alone

It is highly recommended that someone who is capable of rendering first aid be present during servicing. Familiarize yourself with Cardiopulmonary Resuscitation (CPR) methods, if you work with or around high voltages. This information is available from the American Red Cross. Always advise the station personnel about where you will be working, and caution them not to activate power while you are working on the equipment. Use the OSHA Lockout/Tagout procedures. If you are not familiar with this requirement, refer to this information in the service manual and OSHA documentation.

Working With Electricity Safely

Ensure that you use safe and established practices in working with electrical devices. Poorly wired devices may cause a fire, explosion or electrical shock. Ensure that grounding connections are properly made. Take care that sealing devices and compounds are in place. Ensure that you do not pinch wires when replacing covers. Follow OSHA Lockout/Tagout requirements. Station employees and service contractors need to understand and comply with this program completely to ensure safety while the equipment is down.

Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly. Ensure that you clean hands after handling equipment. Do not place any equipment in the mouth.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause cancer.

WARNING

The pump/dispenser contains a chemical known to the State of California to cause birth defects or other reproductive harm.

In an Emergency

Inform Emergency Personnel

Compile the following information and inform emergency personnel:

- Location of accident (for example, address, front/back of building, and so on)
- Nature of accident (for example, possible heart attack, run over by car, burns, and so on)
- Age of victim (for example, baby, teenager, middle-age, elderly)
- Whether or not victim has received first aid (for example, stopped bleeding by pressure, and so on)
- Whether or not a victim has vomited (for example, if swallowed or inhaled something, and so on)

WARNING



Gasoline ingested may cause unconsciousness and burns to internal organs.
Do not induce vomiting.
Keep airway open.
Oxygen may be needed at scene.
Seek medical advice immediately.

WARNING



Gasoline inhaled may cause unconsciousness and burns to lips, mouth and lungs.
Keep airway open.
Seek medical advice immediately.

WARNING



Gasoline spilled in eyes may cause burns to eye tissue.
Irrigate eyes with water for approximately 15 minutes.
Seek medical advice immediately.

WARNING






Gasoline spilled on skin may cause burns.
Wash area thoroughly with clear water.
Seek medical advice immediately.

IMPORTANT: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

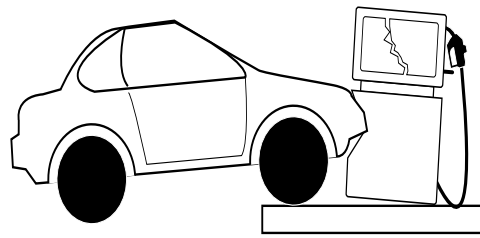
Lockout/Tagout

Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical or other energy, but does not cover electrical hazards. Subpart S of 29 CFR Part 1910 - Electrical Hazards, 29 CFR Part 1910.333 contains specific Lockout/Tagout provision for electrical hazards.

Hazards and Actions

 WARNING	
	Spilled fuels, accidents involving pumps/dispensers, or uncontrolled fuel flow create a serious hazard.
	Fire or explosion may result, causing serious injury or death. Follow established emergency procedures.

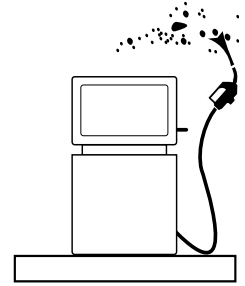
The following actions are recommended regarding these hazards:



Collision of a Vehicle with Unit



Fire at Island



Fuel Spill

- Do not go near a fuel spill or allow anyone else in the area.
- Use station EMERGENCY CUTOFF immediately. Turn off all system circuit breakers to the island(s).
- Do not use console E-STOP, ALL STOP and PUMP STOP to shut off power. These keys do not remove AC power and do not always stop product flow.
- Take precautions to avoid igniting fuel. Do not allow starting of vehicles in the area. Do not allow open flames, smoking or power tools in the area.
- Do not expose yourself to hazardous conditions such as fire, spilled fuel or exposed wiring.
- Call emergency numbers.

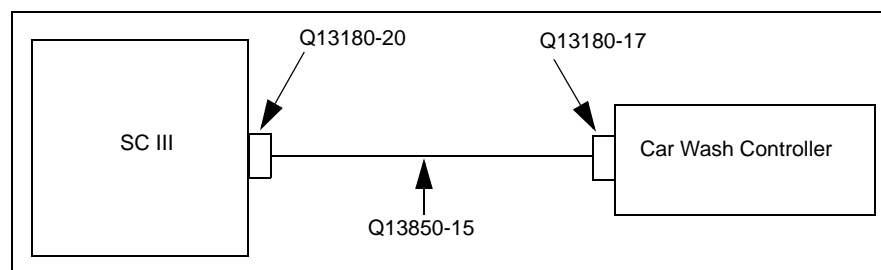
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3 – Cable Connections and Software Installation

Cable Connections

An RS-232 Cable (see [Figure 3-1](#)) is connected from one of the SC III PC ports to the DB9S port on the Unitec box.

Figure 3-1: RS-232 Cable Connection to the Car Wash Controller



Software Installation

To install the software, proceed as follows:

- 1 Log on as administrator.
- 2 If SC III is running, press **Alt** and **X** to shut down the site and end the session.
- 3 Insert the Car Wash Interface disk into the disk drive.
- 4 Select **Start > Run > A:\install** from the taskbar, to run the installation program from the interface disk. The prompt message, “Are you connecting a Unitec Car Wash to any COM port?” appears.
- 5 Press **Y** for “Yes”.
- 6 Enter the COM port number when prompted.
- 7 Edit the parameter file to match your site setup, when prompted by the installation program.
Note: You can edit this file later in the “XBIN” directory, if required.
- 8 At the next “Enter COM port number” prompt, press **Enter** to end the program.

When you start SC III, it will automatically start the interface program on the selected ports. The session will be titled “Unitec Car Wash Session on COM x”, where “x” is the selected COM port. The parameter file is **C:SC3\XBIN\UNITEC.A0x**, where “x” is the selected COM port. The file can be edited with any text editor.

Verifying the Installation

To verify the software installation, proceed as follows:

- 1 Start the SC III program.
- 2 If the Car Wash does not start communicating, switch to the “Unitec Car Wash Session” window and press **1**. If there are communication problems, error messages will be displayed on the screen.
Note: A message is displayed at least once every 10 seconds.
- 3 Press **3** to view all messages, regardless of the installation status. Refer to [“Troubleshooting”](#) on [page 13](#).

4 – Site Configuration

Adding a Car Wash Product at the Site Controller Prompt

To add a product at the Site Controller prompt, proceed as follows:

- 1 Type **Load Product; A** to load a new product. If modifying an existing product, type **Load Product**.
- 2 Enter the Product Code. Assign a code that is currently not in use. 1-10 and 20-29 are set aside for fuel products.
- 3 Enter the Category number. This would be the merchandise category number if you are assigning the Car Wash as merchandise.
- 4 Enter the Product Name - Car Wash.
- 5 Enter the Minimum Price. A minimum price must be entered.
- 6 Enter the Maximum Price. A maximum price must be entered.
- 7 Enter the taxes that are applicable to this site.

Load the Price Code

To load the Price Code, proceed as follows:

- 1 Type **Load Price**.
- 2 Enter the Price Code. This must be the same code as entered in the Car Wash submenu 3.
- 3 Enter the Price level. Load your price level for Car Wash.

Price levels must correspond with the wash types that are configured in the Car Wash submenu 4. For example, if wash type 1 is Basic, use price level 1 to load the price for the Basic wash.

- 4 After the price is entered, the “Price level?” prompt appears. Continue to enter the price levels until prices for all of the Car Wash types that have been added.

Press **Enter** at the “Price level?” prompt, to exit.

Type the command **POS** to send the parameters configured at the Site Controller prompt and the Price Code that you have loaded, from the site to the Profit Point.

Gate Configuration

Use the disk-based configuration program “GATE”, to view the configuration submenus for the Car Wash information.

Gate SubMenus

The following is a list of the submenus currently available for the Gate and Gate Controllers.

- 1 = Gasboy Gates
- 2 = Gasboy Gate Controller
- 3 = Unitec Wash parameter
- 4 = Unitec Wash types
- 5 = Unitec Wash discounts
- 6 = Quit

Unitec Wash Parameters

Figure 4-1: Unitec Wash Parameters

#	Description	
1	Reader car wash prompt	line 1: what type of wash
2		line 2:
3		line 3:
4		line 4:
5	Car wash price code: 0	
6	Days carwash code valid: 0	

Enter number of parameter to modify or q to quit:		

To change the parameters of the Car Wash, select submenu 3, **Unitec Wash Parameters** from the Gate menu.

The parameters you can configure in the Unitec Wash Parameters are as follows:

- **Reader Car Wash prompt line 1 [What type of Car Wash]:** Enter the first line of the display. The default will be displayed between the brackets. Enter additional information for lines 2 - 4, if required. This information will be displayed at the Card Reader.
- **Price code for Car Wash prices [0]:** The Car Wash driver uses this price code for all Car Washes. Each Car Wash type uses the price level corresponding to its type. For example, Car Wash type 42 will use price level 42 of the price code configured here. The price code you assign here must be entered on the site using the Load Price command.
- **Days Car Wash code valid [0]:** The Unitec Car Wash Controller does not remove wash codes from memory automatically. This must be done with a user command at the Unitec console. The number of days listed here informs the customers how often you plan to clear the Unitec memory.

Unitec Wash Types

To change the types of the Car Wash, select submenu 4, **Unitec Wash Types** from the Gate menu. If an Island Card Reader (ICR) does not recognize the selected Car Wash, verify if you have entered the Car Wash types in this screen.

Figure 4-2: Unitec Wash Types

#	Stock	Dept.	Disc	Name	Functions
1					
2					
3					
4					
5					
.					
.					
.					
13					
14					
15					
16					

Enter a to add, d to delete, m to modify, q to quit, or RETURN for next page

The following parameters can be added or modified:

- **Stock number (from 100-65530)[0]:** Enter a unique stock number for this wash type. This parameter is mandatory. Refer to the note below.
- **Associated department [10]:** Enter the department (product code) this wash will be included in. This parameter is mandatory. Refer to [“Adding a Car Wash Product at the Site Controller Prompt”](#) on page 9.
- **Discount level [0]:** Discounts are used to allow ICR transactions to get a reduced price for a wash depending on how much fuel they buy. At the reader, only wash types of discount level zero may be chosen. When the sale is completed, the type table is scanned for wash types with the same functions included but a different discount level. If the sale qualifies for the discount and the price is actually lower, the wash type for the sale will be changed to the discounted one. For Point Of Sale (POS) transactions, any type of wash can be chosen and it is up to the clerk to assign the correct wash type to the sale.
- **Name:** Enter the name of the wash type.
- **Enter wash functions:** A Car Wash consists of 1 to 12 functions that can be enabled for a given wash. Check the configuration of your Car Wash Controller to determine which combinations you require to sell as different washes. Enter a plus (+) to add or a minus (-) to subtract a function followed by the function number. The option to add multiple functions to a single Car Wash type does not work at this time.

Note: If you are using a Profit Point system, ensure that you have entered matching Stock and Department numbers. Use the Price Lookup Unit (PLU) Maintenance program of the Profit Point system to enter this information. A Car Wash cannot be sold from the Profit Point unless this is entered.

Adding a Stock Number at the Profit Point Menu

To add a stock at the Profit Point menu, proceed as follows:

- 1 Select **PLU Maintenance**.
- 2 Select #1, **Add an entry**.
- 3 Select #2, **Add a stock number**.
- 4 Enter the same stock number that was entered above.
- 5 Enter the same department number that was entered above. Refer to [“Adding a Car Wash Product at the Site Controller Prompt”](#) on page 9.
- 6 Enter the retail price for this wash type. If price codes are used, this price must match the price loaded with the L`oad P`Rice command. Refer to [“Load the Price Code”](#) on page 9.
- 7 Exit the Profit Point menu as directed by the program.

Unitec Wash Discounts

To change the wash discounts, select submenu 5, **Unitec Wash Discounts** from the Gate menu. The following information is displayed:

Figure 4-3: Unitec Wash Discounts

#	Description
1	None
2	None
3	None
4	None
5	None

Enter number of discount to modify or q to quit:

Type of discount [0]: The currently supported discount types are:

- 0: Discount type disabled
- 1: Pumping of at least a given amount of fuel.

ICR Configuration

Check the ICR program step 8, Want Car Wash. This message must appear before the “Please Wait” step. The default message is “Want Car Wash?”. Change this if required, for the version you are currently using, refer to the Island Card Reader configuration section in MDE-4872 CFN Series CFN III Configuration Manual for Windows XP Version 3.6.

Troubleshooting

Problem	Solution
Car Wash Item on receipt shows VOID	Ensure that the Car Wash Product is loaded, and with minimum and maximum prices.
No Car Wash Printed on Receipt	Ensure that the Stock numbers are loaded in the Gate, submenu 4. If Car Wash is not printing at the Profit Point, ensure matching stock numbers are loaded in the PLU Maintenance menu and the POS command was executed at the Site terminal.
INVALID Merchandise error when using a fuel restricted Fleet Card	Currently, Fleet Cards with fuel restrictions may cause an Island Car Wash to be denied.

Technical Debug Options

At the CAR WASH session, the following keystrokes serve debugging purposes:

- 0 = debug OFF (default)
- 1 = debug level 1, only display errors
- 2 = debug level 2, display all CAR WASH traffic
- 3 = debug level 3, display all CAR WASH and site traffic
- s = send debug output to the screen (default)
- f = send debug output to the file wash_log.cxx (described in [“Debug Log File”](#))
- ‘ ’ (space) = toggles the display ON and OFF when debug output is going to the screen.
- Alt-R = restarts the CAR WASH session

Debug Log File

The log files are stored in a subdirectory named c:\sc3\wash_log. Each debug log file is saved as wash_log.cxx, where:

- c = COM port number
- xx = cycles from 00 to 99, then resets back to 00

When you start for the first time on COM1, press **f** and the following log files are generated:

- wash_log.100 for 1 MB of data,
- wash_log.101 for next 1 MB of data,
- .
- .
- .
- wash_log.199 for next 1 MB of data,
- wash_log.100 and continues after resetting to 00

It is possible to perform logging on two sessions simultaneously. For COM2, the file would start at wash_log.200 following the same format as COM1.

If you restart the CAR WASH session, it continues to generate the log file from the last one written. For example, if you quit during wash_log.123 with (Alt+X) and start over or restart (Alt+R), and turn on file logging again, it will begin with wash_log.124.

If you want to capture an event, press **Alt** and **R** (then press **F** again if you want to continue with logging which will start a new log file), then you can remove or copy the old file.

Unitec Interface

For each Unitec Interface, an argument file is required. These files are stored in the root directory of the Site Controller. For SC III, the location is **C:/SC3/XBIN**. The Parameter file extension begins with an "A". Therefore, "UNITEC.A0x" is a valid parameter name.

Currently, there are no parameters that must be set in this file. Useful options may be added in future versions.

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