



CFN Series

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# Tokheim® Pump PC Interface

**For CFN III with Windows NT® or Windows® XPE**

**MDE-4624C**

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## 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

Atlas™  
Consola™  
Infinity™

### Registered trademarks

ASTRA®  
Fuel Point®  
Gasboy®  
Keytrol®  
Slimline®

Additional US and foreign trademarks pending.

Other brand or product names shown may be trademarks or registered trademarks of their respective holders.

# Table of Contents

---

1 – Introduction	1
Purpose	1
Related Documents	1
CFN III - Version 3.4	1
CFN III - Version 3.5	1
CFN III - Version 3.6	2
Pump Interface	2
Parts List	2
Abbreviations and Acronyms	2
Warranty	2
2 – Important Safety Information	3
3 – Configuration	7
Setup	7
Pump Configuration	7
Hardware Connections	8
Mixing of Tokheim 67 and 98 Interface Boxes	10
Installation of the Tokheim Pump PC Interface	11
CFN III	11
Configuration Parameters	12
Troubleshooting Tips	13
Tokheim Pump Session does not Open up with the CFN III Session	13
Pumps are not Communicating with the Site Controller	13
Some of the Pumps do not Come Online	13
Busy Loading Prices after a Price Change	13
Technical Debug Options	13
Debug Log File	14
Example of TOKPUMP.Axx File	14

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# 1 – Introduction

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## Purpose

This manual is intended for technicians and field engineers who set up Tokheim® pumps using Gasboy®'s Tokheim Pump PC Interface with CFN III version 3.4 or later. The interface can be connected using a Tokheim 67 or Tokheim 98 Box. A 67 Box supports 16 pumps/dispensers; a 98 Box supports 8 pumps/dispensers. A CFN III supports a maximum of 32 dispensers.

*Notes: 1) The Tokheim Pump PC Interface can only be used with a CFN III system.*

*2) The site must be running Windows NT® or Windows® XPE and CFN III version 3.4 or later software.*

The COMM port availability must be determined before you install the interface. For more information on CFN III communication ports, refer to MDE-4298 CFN Series SC III Installation Manual.

## Related Documents

### CFN III - Version 3.4

Document Number	Title	GOLD Library
MDE-4298	CFN Series SC III Installation Manual	Gasboy CFN Series Controllers and POS
MDE-4315	CFN III Manager's Manual for Windows NT	Gasboy CFN Series Controllers and POS
MDE-4316	CFN III Configuration Manual for Windows NT	Gasboy CFN Series Controllers and POS

### CFN III - Version 3.5

Document Number	Title	GOLD Library
MDE-4762	CFN III Manager's Manual for Windows XP Embedded	Gasboy CFN Series Controllers and POS
MDE-4773	CFN III Configuration Manual for Windows XP Embedded	Gasboy CFN Series Controllers and POS

## CFN III - Version 3.6

Document Number	Title	GOLD Library
MDE-4871	CFN III Manager's Manual for Windows XP Embedded - Version 3.6	Gasboy CFN Series Controllers and POS
MDE-4872	CFN III Configuration Manual for Windows XP Embedded - V 3.6	Gasboy CFN Series Controllers and POS

## Pump Interface

Document Number	Title	GOLD Library
MDE-4559	Insight Interface V2.0 - Windows NT Install Manual	Gasboy CFN Series Networks, Card Handlers and Pump Interface
MDE-4634	CFN Series Gilbarco® Pump PC Interface	Gasboy CFN Series Networks, Card Handlers and Pump Interface

## Parts List

The following table lists the parts included in the CFN Tokheim Single Channel Converter Kit (M09340K001) and CFN Tokheim Two Channel Converter Kit (M09340K002).

Item	Description	Part Number	Quantity	
			M09340K001	M09340K002
1	Cable Assembly, SC/Tokheim 67/98, 1CH Converter	C05578	1	-
2	Cable Assembly, SC/Tokheim 98, 2CH Converter	C05577	-	1
3	Tokheim Pump Interface Software	S610WDT010000	1	1
4	Tokheim Pump PC Interface Manual	MDE-4624	1	1

*Note: The Splitter Cable (C05878) is required, if interfacing to more than 16 pumps.*

## Abbreviations and Acronyms

Term	Description
PCU	Pump Control Unit
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 when 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 when 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

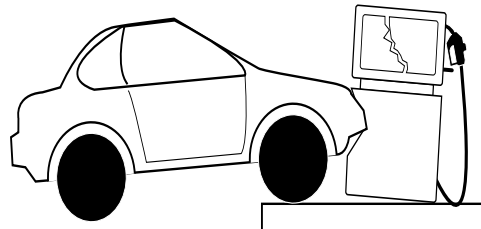
Lockout/Tagout covers servicing and maintenance of machines and equipment in which the unexpected energization or start-up of the machine(s) or equipment or release of stored energy could cause injury to employees or personnel. Lockout/Tagout applies to all mechanical, hydraulic, chemical or other energy, 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

 <b>WARNING</b>	
	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.

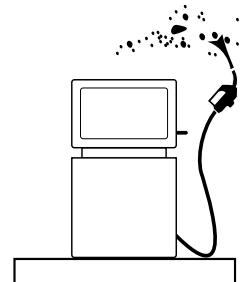
The following actions are recommended regarding these hazards:



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 – Configuration

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### Setup

#### Pump Configuration

To configure the pump, proceed as follows:

- 1 Create a new pump type in the Pump program.
- 2 Select driver type 2 and add option 1.

The options in the following chart may also be added if they meet your specific site configuration. Prior options that are not included in this document are not required and may have negative or no effect on pump performance.

*Note: For detailed information regarding configuring the pumps, refer to the Pump section of MDE-4316 CFN III Configuration Manual for Windows NT or MDE-4773 CFN III Configuration Manual for Windows XP Embedded or MDE-4872 CFN III Configuration Manual for Windows XP Embedded - V 3.6.*

Option	Description
3	Use CASH/CREDIT pricing in cases where it is not specified (if pump requires it, then it will be set automatically).
15	Only one pump per Pump Control Unit (PCU).
17	Use start button on DPT (prompts customer to press START).
18	Beep at console when taken off hook without requiring the payment type.
19	Multiple grade buttons (prompts customer to press GRADE).
20	Beep at console when taken off hook before START is pressed.
21	Pump has lever (prompts customer to lift lever).
22	Pump is master of pump chain.

If upgrading from the Tokheim driver to the PC Interface, it may be required to readdress the Tokheim pumps. With the Tokheim driver, addressing the Tokheim PCUs begins at poll address 1 and increments from there, even when the Tokheim PCU is not the first pump that is configured in the system. This is not the case with the Tokheim Pump PC Interface. If a pump is configured as pump 5 in the Site Controller, it must be addressed as pump 5 in the pump.

The following chart illustrates the addressing changes required for a site that has four mechanical pumps, configured as 1-4, and four Tokheim pumps, configured as pumps 5-8.

Site Controller Configuration	Pump Addressing with the Tokheim Driver (Before)	Pump Addressing with the Tokheim Pump PC Interface (After)
Pump 1 - Mechanical	PCU 1: Slot 1	PCU 1: Slot 1
Pump 2 - Mechanical	PCU 1: Slot 2	PCU 1: Slot 2
Pump 3 - Mechanical	PCU 1: Slot 3	PCU 1: Slot 3
Pump 4 - Mechanical	PCU 1: Slot 4	PCU 1: Slot 4
Pump 5 - Tokheim	Pump 1	Pump 5
Pump 6 - Tokheim	Pump 2	Pump 6
Pump 7 - Tokheim	Pump 3	Pump 7
Pump 8 - Tokheim	Pump 4	Pump 8

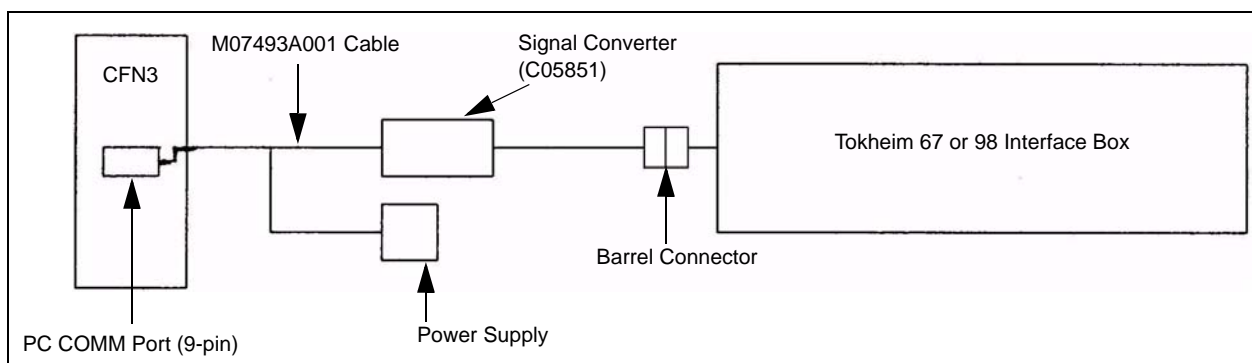
## Hardware Connections

To connect the PC COMM port to Tokheim dispensers through a single Tokheim 67 or 98 Interface Box, use the C05578 CFN to Tokheim 67/98 D-Box Cable Assembly. The C05578 CFN to Tokheim 67/98 D-Box Cable Assembly includes the following:

Item	Description	Part Number	Quantity
1	Connector, 25-pos D-type Male S	C02045	1
2	Connector, Cover 25-pos "D" pl	C02149	1
3	Connector, 16-pos cir fem #2060	C08971	1
4	Connector, Cable Clamp #206	C04484	1
5	Connector, Contact Pin (24-20) 66	C08972	6
6	Cable, 4-cond 20 AWG str u	C02332	12
7	Assembly, RS-232/2-Tokheim	C05851	1
8	Standoff, F/F #4-40 X 1	C02838	2
9	Cable, CFN to Tokheim	M07493A001	1

An overview of the wiring illustration and connections are shown in [Figure 3-1](#).

**Figure 3-1: Single Tokheim 67 or 98 Interface Box Wiring**

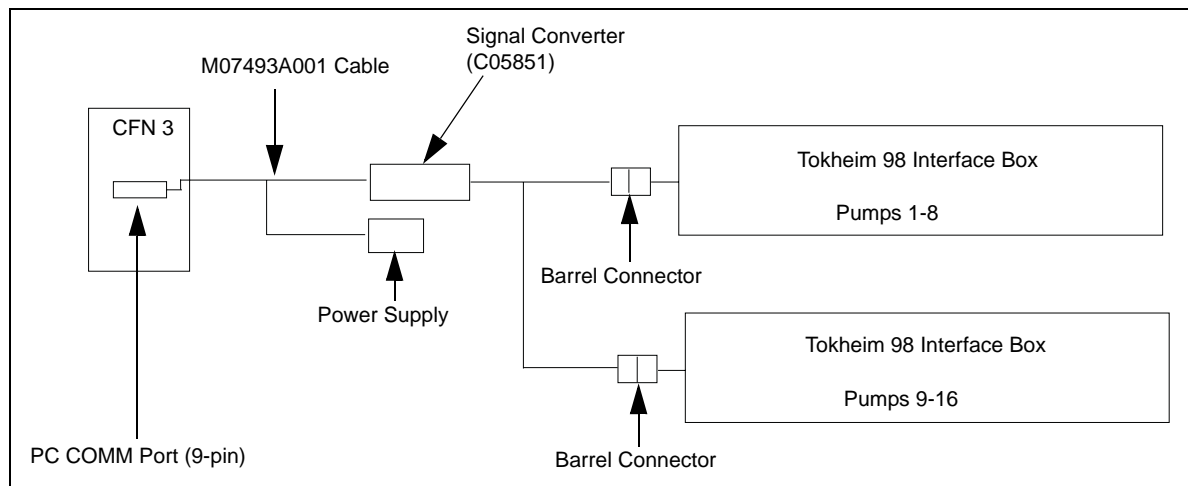


The Tokheim 98 Interface Box can support up to 8 dispensers. To connect the PC COMM port to Tokheim dispensers through two Tokheim 98 Interface Boxes, use the C05577 CFN to Two Tokheim 98 D-Boxes Cable Assembly. The C05577 CFN to Two Tokheim 98 D-Boxes Cable Assembly includes the following:

Item	Description	Part Number	Quantity
1	Connector, 25-pos D-type Male S	C02045	1
2	Connector, Cover 25-pos "D" pl	C02149	1
3	Connector, 16-pos cir fem #2060	C08971	2
4	Connector, Cable Clamp #206	C04484	2
5	Connector, Contact Pin (24-20) 66	C08972	12
6	Cable, 4-cond 20 AWG str u	C02332	24
7	Assembly, RS232/2-Tokheim	C05851	1
8	Cable, CFN to Tokheim	M07493A001	1

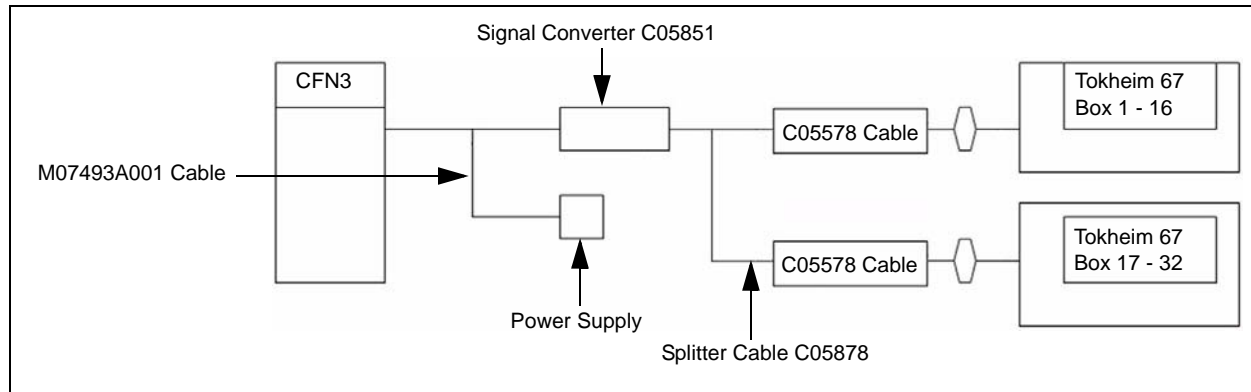
An overview of the wiring illustration and connections are shown in [Figure 3-2](#).

**Figure 3-2: Double Tokheim 98 Interface Box Wiring**



The Tokheim 67 Interface Box can support up to 16 dispensers. If there are more than 16 dispensers connected through two Tokheim 67 Interface Boxes, an additional ‘Y’ Cable (C05878) and C05578 cable are required (see [Figure 3-3](#)).

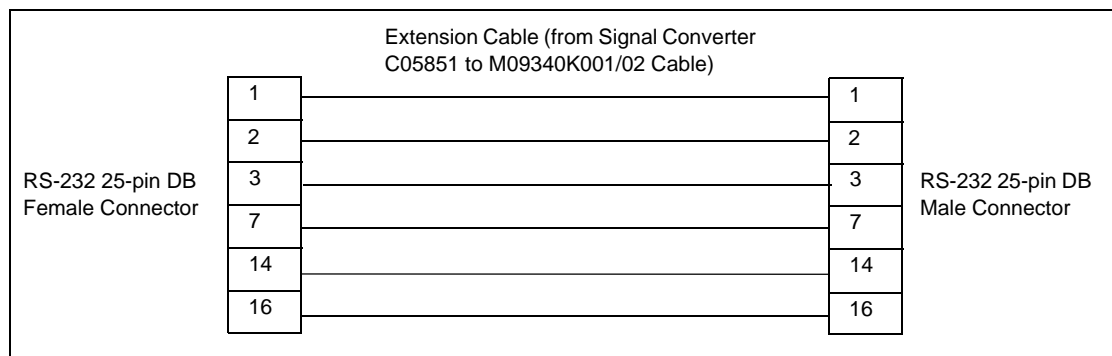
**Figure 3-3: Double Tokheim 67 Interface Box Wiring**



*Note: Additional cables (C05878 and C05578) are not part of a kit. These must be ordered separately when interfacing to more than 16 pumps.*

The maximum distance of combined cables must not exceed 350 feet for Tokheim 67 Interface Boxes and 250 feet for Tokheim 98 Interface Boxes. For installations that require an extension or longer cable run between the Signal Converter (C05851) and the cable connected to the Tokheim 67 or 98 box (see [Figure 3-4](#)).

**Figure 3-4: Extension Cable Connector Drawing**



## Mixing of Tokheim 67 and 98 Interface Boxes

- The number of Tokheim Dispensers that can be attached to one CFN III Site Controller is limited to 32.
- Tokheim 98 and 67 box cannot share a COMM port. If both boxes are present, a second cable assembly must be installed on a second COMM port.

# Installation of the Tokheim Pump PC Interface

## CFN III

To install the Tokheim Pump PC Interface, proceed as follows:

- 1 Login to the PC as the administrator. For instructions, refer to MDE-4315 CFN III Mangers Manual V3.4 or MDE-4762 CFN III Manager's Manual for Windows XP Embedded or MDE-4871 CFN III Manager's Manual for Windows XP Embedded - Version 3.6.
- 2 If SC III is running, press **ALT-X** to shut down the site and end the session.
- 3 Place the "tokpump" floppy diskette into the floppy disk drive.
- 4 Run **a:install** from the tokpump release disk. In the taskbar, select **Start > Run > A:\install**. A message, "Are you connecting Tokheim pumps to any COMM ports?" appears.
- 5 Press **y** to accept the message.
- 6 Enter the COMM port number where the C05578 or C05577 Cable Assembly connects to the PC, when prompted.
- 7 Follow the prompts on the screen and answer the questions regarding your site setup.
- 8 If you have multiple COMM ports for Tokheim pumps, enter the next COMM port number when prompted, or press **ENTER** to end the program.

When SC III is started, it will automatically start the "tokpump" program on the selected ports. The session title will be "Tokheim pump session on COM x", where "x" is the selected COMM port.

The parameter file is **C:SC3\XBIN\TOKPUMP.A0x**, where "x" is the selected COMM port. The file can be edited with any text editor. Other PC interfaces will also store parameter files in the XBIN directory using a similar file naming convention. These XBIN files must all have unique file extensions. For example, if the site has one Tokheim pump COMM port using tokpump.a01 parameter file, then a Unitec® Car Wash parameter file, WASH.a01, cannot use the same suffix extension but must use a different port extension such as WASH.a02, since .a01 and .a02 cannot share the same communication port. This is because the number after the "a" is used to identify which communication port is being used. Since these two devices cannot share ports, they must have different suffixes.

The "tokpump" program only reads this parameter file when it starts, so you must restart the program by pressing **ALT-R**, whenever a change is made.

Start the SC III program. If the pumps do not come up, switch to the Tokheim Pump session window and press **1**. If there are communication problems, error messages will appear on the screen. The message must appear at least once every 10 seconds. Press **2** to show all messages. If no pumps come up, check the number of site polls. If it is 0, then the site is not polling for any pumps in the range specified in the parameter file. If some come up but others do not, ensure that those addresses are in the range shown in the parameter file.

# Configuration Parameters

The “tokpump.axx” file contains the following parameters:

*Note: These are sample settings and the information after ‘=’ may vary between systems.*

“FIRST\_ADDRESS=” and “LAST\_ADDRESS=” refer to the pump address range to be controlled.

ID=Tokheim Pumps 1-16

FIRST\_ADDRESS=1

LAST\_ADDRESS=16

FIRST\_CHANNEL\_LAST\_ADDRESS=16

For the first 16 pumps, set the address inside the pump to the required pump number on the system. For example, inside pump 5, set the address to 5. Each TOKPUMP session can only address 16 pumps.

If the site has more than 16 Tokheim pumps, you will use a ‘Y’ Cable (C05878) and connect pumps to both channels. For example, if the site has 24 Tokheim pumps, set the parameters as follows:

FIRST\_ADDRESS=1

LAST\_ADDRESS=24

FIRST\_CHANNEL\_LAST\_ADDRESS=12

Pumps 1 through 12 will be controlled by channel 1. The channel 1 connection will be connected to the Tokheim 67 Interface Box for the first 12 pumps and pumps will be addressed from 1 to 12. Pumps 13 through 24 will be controlled by channel 2. The channel 2 connection will be connected to the Tokheim 67 Interface Box for those 12 pumps (13-24) and the pump addresses must start at 1. In this example, pumps controlled by channel 2 will also be addressed from 1 to 12. Pumps must be split evenly between the two channels as much as possible.

To determine the pump number on the CFN III for the pumps controlled by channel 2, add the FIRST\_CHANNEL\_LAST\_ADDRESS number to the address set inside the pump. In the example, if a pump controlled by channel 2 is set to address 8 inside the pump and the FIRST\_CHANNEL\_LAST\_ADDRESS is 12, that pump will be pump number 20 (8+12) on the CFN III.



# Troubleshooting Tips

## Tokheim Pump Session does not Open up with the CFN III Session

The **tokpump.exe** may not be installed. To reinstall the “tokpump” files, proceed as follows:

- 1 Login to the PC as the Administrator.
- 2 Place the “tokpump” floppy diskette into the floppy disk drive, and type **a:install** at the command prompt (refer to [“Installation of the Tokheim Pump PC Interface”](#) on [page 11](#)).

This problem will also indicate that the Site Controller program is not running or has crashed. Verify if the Site Controller window is up and running.

## Pumps are not Communicating with the Site Controller

Verify if the cable connected from the Site Controller to the Tokheim box is securely connected. Also, verify if the pump and Tokheim box are properly connected, as per Tokheim’s Installation Manual. Verify the pump addressing. With the PC Interface, Tokheim pumps must be addressed as they are configured in the Site Controller.

## Some of the Pumps do not Come Online

Check the first and last address in the “tokpump” parameter file. If you have eight pumps, then the first and last pump address must be set to 1 and 8 respectively, for all the pumps to come up. If the addresses are correct, recheck the wiring and validity of the hardware for the pumps.

## Busy Loading Prices after a Price Change

Check the sys\_par, page 9 setting for blank pump display after a price change. This parameter must be set between 30 seconds and 100 seconds with 60 seconds being a commonly used value. If the time is set for a high number of seconds (for example, 600 seconds), the site may experience a problem downloading prices to the pump.

*Note: For Tokheim pumps that support modes 25 and 26, mode 25 must be set to 1 and mode 26 must be set to 2.*

## Technical Debug Options

At the TOKPUMP session (on NT or XPE), the following keystrokes serve debug purposes:

- 0 = debug off (default)
- 1 = debug level 1, only display errors
- 2 = debug level 2, display all Tokheim pump traffic
- 3 = debug level 3, display all Tokheim pump and site traffic
- s = send debug output to the screen (default)
- f = send debug output to the file *TOK\_log.cxx*
- ‘ ’ (space) = toggles the display ON and OFF when debug output is going to the screen.
- ALT-R = restarts the Tokheim pump session

## Debug Log File

All the log files are in the subdirectory named: **c:\SC3\TOK\_log**. Each debug log file is saved as *TOK\_log.cxx*, where:

c = COMM port number

xx = cycles from 00 to 99, then 00 over again

Press **f** when you start for the first time on COMM 1. The logging will go to:

TOK_log.100	for 1 Meg of data, then to
TOK_log.101	for another 1 Meg, then
.	
.	
.	
TOK_log.199	for another 1 Meg, then
TOK_log.100	and cycles through again.

It is possible to log in to two sessions at one time. For COMM 2, the file will start at TOK\_log.200 following the same format as COMM 1.

If you restart the Tokheim pump session, it starts with the next file after the last one that was written. For example, if you quit (**ALT-X**) during TOK\_log.123 and start over, or restart (**ALT-R**) and turn on file logging again, it will begin with TOK\_log.124.

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

## Example of TOKPUMP.Axx File

*Note: The following file is for illustration purposes only. The files will differ depending on your specific site requirements.*

**Figure 3-5: TOKPUMP.Axx File**

```
ID= TOKHEIM PUMPS 1-16
FIRST_ADDRESS=1
LAST_ADDRESS=16
FIRST_CHANNEL_LAST_ADDRESS=16
```

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MDE-4624C CFN Series Tokheim® Pump PC Interface for CFN III with Windows

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