

# Wayne Nucleus<sup>©</sup> Fusion Site Controller

Programming

## **Table of Contents**

Title			F	age
1	PRODU	ЈСТ		5
2	INTRO	DUCTI	ON	5
3	TYPIC	AL FUS	SION INSTALLATION	5
4	CONFI	GURA	TION PROCEDURE	5
	4.1	Log In	1 to Fusion	6
	4.2	Config	gure the System - Step by Step	6
		4.2.1	Product Configuration	7
		4.2.2	Tank Configuration	8
		4.2.3	Grade Configuration	. 10
		4.2.4	Tank Suction Configuration	. 12
		4.2.5	Communications Configuration	. 14
		4.2.6	Loop Manager Configuration	. 15
		4.2.7	Pump Configuration	. 16
		4.2.8	Hoses Configuration	. 19
		4.2.9	Tank Monitor Configuration	. 19
	4.3	Config	gure the System - Using the Wizard	. 21
		4.3.1	Wizard General Options	. 21
		4.3.2	Product Configuration	. 22
		4.3.3	Tank Configuration	. 23
		4.3.4	Communication Configuration	. 23
		4.3.5	Pump Configuration	. 24
		4.3.6	Hose Configuration	. 24
		4.3.7	Applying the Configuration	. 25
	4.4	IP Add	dress Configuration	. 26
		4.4.1	How to use the Putty Software	. 26
		4.4.2	How to Change the IP Address	. 26

## 1 PRODUCT

Product	Fusion Site Controller
Application	Nucleus
Production Version	Version x.xx
Current Build	Version x.xx
Hardware Platform	Wayne Proprietary Hardware

## 2 INTRODUCTION

The Fusion Site Controller is an Ethernet-based device capable of supporting existing peripheral devices that are currently supported through the SCC card. This manual explains how to program Fusion and configure it for use.

## **3 TYPICAL FUSION INSTALLATION**



## Figure 1 Backroom Installation

## 4 CONFIGURATION PROCEDURE

This section details the basic procedure to configure the system. There are two methods that you can use, the first is to configure the system step by step, and the other is by using the Fusion Wizard. In both cases the first step is a login.

## 4.1 Log In to Fusion

To access the Fusion programming, log on using a laptop connected to the Fusion ethernet port via a CAT5 ethernet cable.

- 1. On the laptop, go to the Windows **Start** button > **All Programs** > **Internet Explorer**.
- 2. In the Explorer Address bar, type in **192.168.1.20** and press <enter>. The following Screen will then be displayed.

F	DRESSER WAYNE
Login	
Login 🛛	
Password	
	Login

#### Figure 2 Fusion Login Screen

3. Enter the **Admin** in the Login field and **Dresser3141** in the Password field. Press <enter> to continue. The following window will be displayed.

DRESSER WAYNE	User: 🔶 ADMIN (en)	Store: (en) number: 000	00 Fusion Date:	1/3/2007 1:01:39 🔀 🗠	jout
TEOSICIA	Configuration	Operation	Reports	Security	



## 4.2 Configure the System - Step by Step

It's important to follow the configuration steps in the order presented to be assured of a successful installation. The first step to configure the Fusion is to add the basic products. These are the products that will be in a tanks, which may or may not be the actual products that are dispensed from the pumps due to the nature of blending dispensers.

## 4.2.1 Product Configuration

1. Click **Configuration** and then select **Devices** then **Product**. See Figure 4.



Figure 4 Fusion Programming Window 1

2. Click on **Add** to add a new product and configure the id of the product. See Figure 5. Enter an ID of the product and press **OK**. This ID must be the name of the product. See Figure 6.

DRESSER WAYNE	User: 🔶 ADMIN (en)	Store: (en) number: 000	00 Fusion Date	:: 1/3/2007 0:53:10 🔀 Logout
	Configuration	Operation	Reports	Security
HOME > Configuration > D	evices > Product			
Product				
Id number Type Color				
Add				
Auu				

## Figure 5 Product Programming Window

🖉 http://192.168.1.20 - SSFDev 💶 🗙	]
Implementation	
Prem Product •	
OK Cancel	
	1
Done	

Figure 6 Enter Product ID Window

3. After the ID of the product is configured you must then configure the following parameters:

- **Number** of the product:
  - A numeric value that will identify the product.
- Type:
  - Use the pull-down to select a product type. (Unleaded, Premium).
- Color:
  - This value indicates the color representation of the product; that will be show in the console if this module is activated.

Parameter	value	Тір
Name	Prem	Product Name
Number		Product Number
Product Type	High Octane Leaded	Specifies the product type
Color	#FFFFFF	Product color

Figure 7 Enter Product Parameters Window

4. Repeat the procedure for all fuel products to be sold. See the following window.

Id	number	Туре	Col	or
CNG	4	Natural Compressed Gas		#CCCCCC
Diesel	3	Gasoil		#FFFF99
Premium	1	High Octane Unleaded		#33FFFF
Regular	2	High Octane Unleaded	-	#FF6666

**Figure 8 Product Programming** 

#### 4.2.2 Tank Configuration

After the product configuration is complete, the tank parameters must be configured. After the tanks have been configured the tanks must be assigned a product. To do this, go to the **Configuration > Devices > Tank** menu. See the following window.

DRESSER WAYNE	ser: 🔶 ADMIN (en) S	tore: (en) number: 000(	00 Fu	ision Date:	1/3/2007 1:27:30	Logout
	Configuration	Operation	Reports		Security	
	Generic		_			
	Devices 🔫	TankMonitor		<u> </u>	k Configu	ration
	Manteinance	VehicleIdRead	er	∕ thei	n Devices	then
	Payment Types	Communicatio	n /	Tan	k	
	Prices	Grade				
	Others	Loop Manager				
		Product				
		Pump				
		► Tank				
		Tank suction				

## Figure 9 Fusion Programming Window 2

1. Click **Add** and the following window will be displayed.

Tmplementa	i SSFDeviceConfigImplement	
1	Tank 💌	
OK Cancel	112	9
🙆 Listo	Internet	18

## Figure 10 Enter Tank ID Window

2. Enter the ID of the tank then press **OK**. This is the first parameter to configure and must be a numeric value. This value is used to identify the tank in Fusion programming. Next, you program the tank capacity and the product.

Parameter	value	Tip
ID	1	Tank Id
Product	Prem 💌	Product in Tank
Capacity		Maximum tank capacity
Height	0	Tank height
Table measure unit	MM 💌	If there was a calibration table
Reading measure unit	MM 💌	When a manual tank reading is executed
Temperature Unit	C 🗸	Temperature unit used to display information on tank product status. Only if Tank Monitoring module is present
Overflow Alarm	95	Percentage of the tank where the overflow alarm will be activated
High product alarm	90	Percentage of the tank where the high product alarm will be activated
Low product alarm	30	Percentage of the tank where the low product alarm will be activated
Suction alarm	15	Percentage of the tank where the suction point is reached and the suction alarm is activated
Water alarm	10	Percentage of the tank where the high water alarm will be activated
Temperature High	0	Top limit for product temperature in corresponding unit (C or F). 0 means no control
Temperature Low	0	Lowest limit for product temperature in corresponding unit (C or F). O means no control

Figure 11 Tank Programming - Page 1

- 3. Click Apply Changes.
- 4. Repeat from step 1 for each tank at the site.

1000	USIC	~					11. Inc. of the later of the la			1000000
Y			Configuration	n 01	ender 1	termin /	1001	Decump		
IOME > C	nfiguratio	a > Dei	ices > Tani	disaitor						
ank										
d Produc	capacity	beight	table_writ	manual unit	temperature_anit	alarm overflow in	Apid borg mule Su	holt a	ions prod low limit	
Citeria.	10000		101	MM	C	95	90		8	
- Barrow has	10000		HEE .	MBR	c	95	90	1	4	
1.1.1.1.1.1.1.1			i-m-	MM	c	95	90	3		
Depart	10008									



## 4.2.3 Grade Configuration

This step is used to configure the grades that are sold at the site. These can be pure grades or blend grades depending on the dispensers at the site and the tank plumbing. To do this, go to the **Configuration > Devices > Grade** menu. See the following window.

DRESSER WAYNE	User: 🙎 ADMIN (en) Sto		en) number: 000	00	Fusion Date: 1/3/2007 2:09:43 🔀 Logout
	Configuration	Ope	eration	Reports	Security
	Generic				
	Devices		TankMonitor		
	Manteinance		VehicleIdRead	er	
	Payment Types		Communicatio		
	Prices		▶ Grade		
	Others		Loop Manager		
			Product		
			Pump		
			Tank		
			Tank suction		

#### Figure 13 Fusion Programming Window 3

1. Click **Add** and the following window will be displayed.

Implemen	tation	0
1	Grade 🛩	
OK Cancel		

#### Figure 14 Enter Grade ID Window

- 2. The first option to set is an ID of the grade which is the name of the grade. Click **OK** to continue.
- 3. Next you will assign the **Number** of the product, or the high and low product (If you are installing a Blender pump).
- 4. Program the **Measure Unit** (Liters or Gallons) and then the color of the grade. See Figure 15.

Parameter	value	Тір
Name	Diesel	Grade Name
Number	3	Grade Number
High Product	Diesel 💌	High Octane product of the blen
Percentage High Product	100	Percentage High Product
Low Product	Y	Low Octane product of the blend
Percentage Low Product	0	Percentage Low Product
Measure unit	Litres 💌	Grade unit measure
Measure unit (abbr)	Ltr 🛩	Measure unit Abbreviation
Color	#EFFF99	Grade Color

#### Figure 15 Grade Programming - Page 1

5. Repeat from step 1 for each product.

Id	number	<b>High Product</b>	<b>High Product Percentage</b>	Low Product	Low Product Percentage	unit	abbreviation	Cok	or
CNG	4	016	100		0	Litres	Ltr		#000000
Diesel	3	Diesel	100		0	Litres	Ltr		WFFFF99
Premium	1	Pramium	100		0	Litres	Ltr.		#33FFFF
Regular	2	Regular	100		0	Litres	Ltr	-	#FF6666

## Figure 16 Grade Programming - Page 2

## 4.2.4 Tank Suction Configuration

Next, you program the tank suction, which is the relationship between the grades and the tanks. To set the Tank Suction parameters go to **Configuration > Devices > Tank Suction**.

DRESSER WAYNE	ser: 🤶 ADMIN (en) 🛛 S	Store: (en)	number: 0000	0	Fusion Date:	1/3/2007 2:09:19 🔀 🏼	ogout
FOSICIA	Configuration	Operat	ion	Reports		Security	
	Generic						
	Devices		TankMonitor				
	Manteinance		VehicleIdReader				
	Payment Types		Communicatio				
	Prices		Grade				
	Others		Loop Manager				
			Product				
			Pump				
			Tank				
		•	Tank suction				

Figure 17 Fusion Programming Window 4

1. Click **Add** and the following window will be displayed.

Impleme	ntation			
1-Regular	Ta	nkSuction	~	
out 6	1			

Figure 18 Enter Tank Suction ID Window

- 1. Enter the first parameter which is the ID, this is the name of the tank suction. Click **OK** to continue.
- 2. Next, configure the type (Simple, Parallel or manifold) and then the tank where the product is stored. Click **Apply Changes** to save and continue.

Parameter	value	Тір
ID	1-Premium	Tank suction ID
Suction Type	1-Simple 💌	Type of suction
First Tank	1 -	First tank of this connection
Second Tank	•	Second tank of this connection
Third Tank		Third tank of this connection

Figure 19 Tank Suction Programming - Page 1

3. Repeat from step 1 for each Tank Suction.

Tank s	uction			
Id	Suction type	tank1	tank2	tank3
1-Premium	Simple	1		
2-Regular	Simple	2		
3-Diesel	Simple	3		

#### Figure 20 Tank Suction Programming - Page 2

## 4.2.5 Communications Configuration

Next, you need to configure the connection to the physical devices. To do that you assign the output port that will be used for the system to communicate with the loop board. Go to **Configuration > Devices > Communications**.

DRESSER WAYNE	ser: 🙎 ADMIN (en)	Store: (en) number	(en) number: 00000 Fusion Date: 1/3/2007 3:17:05		
THUSICIA	Configuration	Operation	Reports	Security	
	Generic				
	Devices	TankMor	nitor		
	Manteinance	Vehiclelo	IReader		
	Payment Types	► Commu	nication		
	Prices	Grade			
	Others	Loop Ma	nager		
		Product			
		Pump			
		Tank			
		Tank su	tion		

## Figure 21 Fusion Programming Window 5

1. Click **Add** and the following window will be displayed.

http://10.10.1.15 - SSI	FDeviceConfigImplement 🔳 🗖 🖻	Communication type pull-down
Com1	Serial	Communication port name
a Listo	💓 Internet	



- 2. Select the communication type from the pull-down, in this case select **Serial**. Next, enter a name for the communication port then press **OK** to continue.
- 3. Next, you program the communications parameters. Is important to set the Echo parameter as **True** and the address of the serial port.
- 4. Click **Apply Changes** to save and continue or **Duplicate** to clone the current programming and create a new port.

Parameter	value	Тір
Baud Rate	9600 💌	Serial port baud rate
Tipo Dispositivo Comunicacion	Serial	Tipo del dispositivo de communicaciones
Parity	NONE -	Serial port parity
Device ID	com1	Identificacion del dispositivo de communicaciones
Word Len	8 🗸	Word len in bits of every byte transmitted
Port Id		Serial Communication Id (Ex. 'COM1' or '/dev/ttyS0'
Max Serial Port Errors	3	Maximum Number of errors allowed in a serial port before a reset
Stop Bits	1 -	Serial port stop bits
RTS-CTS	FALSE -	Serial port must use hardware handshaking with RTS and CTS signals
XON-XOFF	FALSE -	Serial port must use sofware handshaking with XON and XOFF protocol
Write Interval	0	Milliseconds between each byte transmitted. Leave in 0 as default
Read Timeout	500	Milliseconds to wait for the first byte on a message on the serial port
Read Interbyte TO	10	Milliseconds to wait for each subsequent byte on a message on the serial port
Echo		Does every byte sent over the port is received back as echo?
RTS (485)	FALSE -	If this is a 485 port, then use RTS up to signal transmission, and down for reception
Apply Changes	Duplicate Delete Cancel	



## 4.2.6 Loop Manager Configuration

The Loop Manager configuration must be done next to assign the output communication configuration to the loops in the loop board. Go to **Configuration > Devices > Loop Manager** to program these settings.

Jser: 🔶 ADMIN (en) S	Store: (en	n) number: 0000	0	Fusion Date: 1 21:30:28	/3/2007	🔀 Logout
Configuration	Opera	ation	Reports		Security	
Generic						
Devices		TankMonitor				
Manteinance		VehicleIdReade				
Payment Types		Communication				
Prices		Grade				
Others		Loop Manager				
		Product				
		Pump				
		Tank				
		Tank suction				

#### Figure 24 Fusion Programming Window 6

1. Click **Add** and the following window will be displayed.

🖉 http://192.168.1.20 - SSFDev 🗕 🛙	X
Implementation	
LoopManager	
OK Cancel	
	-
Done Internet	

#### Figure 25 Enter Loop ID Window

2. Enter the name of the Loop and click **OK**. The following window will then be displayed.

Parameter	value	Tip
ID	Loop1	Loop ID
Communication	18 com1 v	Communications Port

#### Figure 26 Configure Loop Window

3. Use the **Communications** pull-down to select the desired communications configuration.

Note: The communication configurations were created in the previous section.

- 4. Click **Duplicate** to create another Loop Configuration using the current settings.
- 5. Click **Apply Changes** to save and continue.

## 4.2.7 Pump Configuration

To configure the pumps, go to **Configuration > Devices > Pump**. This is where you define the number of the pumps at the site and the pump brand.

DRESSER WAYNE	User: 🤶 ADMIN (en) Store: (		n) number: 0000	10	Fusion Date: 1 22:50:00	1/3/2007	🔀 Logout
	Configuration	Oper	ration	Reports		Security	
	Generic						
	Devices		TankMonitor				
	Manteinance		VehicleIdReade				
	Payment Types		Communication				
	Prices		Grade				
	Others		Loop Manager				
			Product				
			▶ Pump				
			Tank				
			Tank suction				

## Figure 27 Fusion Programming Window 7

1. Click **Add** and the following window will be displayed.

Enter the pump ID	http://192.16	8.1.20 - SSFD	ev 🗆 X	Select the pump brand using the pull-down
	OK Cancel	Aspro Develco   Aspro Abeledo  Bogus DartWayne Galileo Gilbarco Kraus NuovoPignone OrpakPIR TeosisDCR Wayne	t	

#### Figure 28 Configure Pump ID and Type

2. Select the pump brand using the pull-down and then assign a pump ID. (This is the pump number of the fueling point.) Click **OK** to save and continue. The following window will be displayed where pump configuration is completed.

Parameter	value	Tip
Amount decimal option	3-X.2 💌	Amount decimal option
Pump Type	Wayne	Pump type for the system
ID	1	Identification of the pump for the system. Is the logical number of the pump
Volume decimal option	1-3.3 💌	Volume decimal option
Physical ID	1	Is the internal identification of the fuelling position
PPU decimal option	4-1.3 💌	PPU decimal option
Minimum sale volume	0.100	Minimum volume of a sale in order to consider it valid
Pump type of computer	SIMPLE -	Identifies if the pump is a one sided or two side
Maximum sale volume	40000.00	Maximum volume of a sale in order to consider it valid
Hoses	3	Number of hoses for the fuelling position
Communications loop	Loop1 💌	Identifies the communication loop used to talk to this pump
Minimum sale amount	0.000	Minimum amount of a sale in order to consider valid
Maximum sale amount	0.000	Maximum amount of a sale in order to consider it valid
Maximum pump errors	6	Number of consecutive errors to make the pump go to error state
Preset Type in Fill Up Fuel Tank	VOLUME -	It determines the Preset Type in case of sending "FILL UP" in Preset command
Preset Amount in Fill Up Fuel Tank	999.000	It determines the Preset Amount in case of sending "FILL UP" in Preset command
Totalizer Update Time	0	Time to wait (in secs) for the electronic totalize to update in case it didn't when the sale finished
Slot ID	0	Slot ID where the pump is conected to the GPBox
Maximum transaction	0	Maximum volume in transaction (zero means no limit)
Slow down	0	Set the slow down value to prevent a transaction stop correctly with a preset. Set zer if you don't know the correct value.

#### **Figure 29 Pump Programming Window**

- 3. Program the ID, this is the logical number of the pump (fueling point).
- 4. Program the number of hoses for this pump ID.
- 5. Program the communications loop that is used to talk to this pump ID.
- 6. Program the remainder of the pump options according to site requirements.
- 7. Click **Apply Changes** to save and continue or **Duplicate** to clone the current pump programming for use in defining another pump.
- 8. The following Hose Configuration programming screen will then be displayed.

## 4.2.8 Hoses Configuration

Hose Configuration programming must now be completed for this Pump ID. You must assign fuel grades to the hoses. Click on the Hose ID link for each pump and configure the grade, the high product suction and the physical id of the hose. If you don't have the id of the hoses, you must set this parameter in "0". The system will learn the hoses physical ID.

Click a Hose ID to	Hos	e				
conligure	Id	Logical ID	Real ID	Grade	Suction high	Suction low
	hose1	1	0			
	hose2	2	0			
	hose3	3	0			

Figure 30 Hose Selection Window

1. Click on a Hose ID to configure that hose for the current pump ID. The following window will then be displayed.

Parameter	value	Tip
Number	1	Logical Hose Number (consecutives)
Physical ID	0	Physiccal hose id. Real number inside pump (leave this in O if you don't know)
Grade	Prem -	Grade delivered at this hose
High Suction		Suction used to get high feedstock
Low Suction		Suction used to get low feedstock

#### Figure 31 Hose Programming Window

- 2. Program the grade and suction settings according to site requirements.
- 3. Click Apply Changes to save and continue.
- 4. Program the remaining hoses.

#### 4.2.9 Tank Monitor Configuration

The tank monitor installation/configuration in Fusion consists in two parts, the physical connection and the logical configuration.

#### Physical Connection

The physical tank monitor system connection must be done before beginning the logical configuration. Physical connections of the tank monitor have yet to be determined.

#### Tank Monitor Configuration

Go to Configuration > Devices > Tank Monitor to configure the tank monitor.

DRESSER WAYNE	eer: 🙎 ADMIN (en) St	core: (en) number: 000	00 I	Fusion Date: 2/3/2007 3:04:00 🔀 Logout	<b></b>
	Configuration	Operation	Reports	Security	
	Generic				
	Devices	► TankMonitor			
	Manteinance	VehicleIdRead	er		
	Payment Types	Communicatio	n		
	Prices	Grade			
	Others	Loop Manager			
		Product			
		Pump			
		Tank			
		Tank suction			

Figure 32 Fusion Programming Window 8

1. Click **Add** and the following window will be displayed.

http://192	.168.1.20 - SSFDev 🗖		
Implementa	tion		Select the Tank Monitor brand
OK Cancel	InconTS-5Series Optilevel Veeder	•	
Done Done	💽 Internet		

## Figure 33 Tank Monitor Selection Window

- 1. Select the brand of Tank Monitor from the pull-down.
- 2. Assign a numeric ID to the Tank Monitor.
- 3. Click **OK** to proceed. The following configuration window will then be displayed.

Parameter	value	Тір
Tank Monitor Type	Veeder	Type of Tank and Sensors Monitor
ID	26	Tank Monitor unique identification
Number of tanks		Number of tanks being controlled by this console
Number of sensors		Number of sensors being controlled by this console
Communications	•	Communications channel
Time between tank readings	60	Time (in secs) between tank readings
Time between sensors readings	60	Time (in secs) between sensors readings
Predefined Port Configuration	YES -	Use de predefined port configuration to communicate with the Veeder console, and override the one set in port configuration (recommended)
Security Code		Veeder Console Security Code (only if one setted Otherwise leave blank)

#### Figure 34 Tank Monitor Configuration Window

- 4. Program the Tank Monitor according to site requirements.
- 5. Click **Apply Changes** to save and continue.

## 4.3 Configure the System - Using the Wizard

The configuration wizard is an easy way to configure the Fusion Forecourt Controller.

As in the configuration step by step, you need the configuration survey sheet completed to use during the Wizard setup.

## 4.3.1 Wizard General Options

1. Click **Configuration** and then select **Other** then **Wizard**. See Figure 35.



Figure 35 Access the Wizard Window

2. The following window will then be displayed where you configure the first set of general parameters.

Welcome to Configu	ration Wizard !!
How many tanks do you have ?	
How many different products do you have in tanks? ?	
Dou you have Blended Grades ?	
How many grades do you have ?	- 45 <sup>-2</sup>
How many pumps do you have ?	
Wich brand are most of the pumps from ?	Wayne
Do you have paralel or manifold suction type ?	No 💌
Next Start Over	

#### **Figure 36 General Parameters**

- 3. Program the following options:
  - How many tanks do you have? The quantity of underground storage tanks at the site.
  - How many different products do you have in tanks? The quantity of fuel products to be sold.
  - Do you have Blended grades? Enable the check box if you have blender pumps.
  - How many grades do you have? If you have enabled Blenders in the previous question, the wizard needs to know the number of grades, otherwise the wizard will configure the same grades as the products.
  - How many pumps do you have? How many total pumps at the site? Fuel position is not a pump quantity, because Fusion handles each pump as two fueling positions.
  - Which brand are most of the pumps? Specify the brand of the pumps that you have.
  - **Do you have parallel or manifold suction type?** Specify if you have parallel / manifold connection between the tanks or not.
- 4. The wizard is now prepared to configure the remaining options. Click **Next** to save and continue or **Start Over** to begin again.

## 4.3.2 Product Configuration

The following window is now displayed where you configure the product options.

	-	List of Product		_	The product is the one that resides inside the tank. Fill with the product
Name	number	Prod Type	Color	Delete	inanie nere.
		Select Value			
		Select Value			
		Select Value			
		Pr	ev Next C	ancel	Corte Frente Fondo Corte Lateral

#### Figure 37 Product Configuration Window

- 1. Program the following options:
  - Name of the product Enter the name of the product
  - Number of the product Enter a numeric value that will identify the product.
  - Prod Type This value indicates the type of product, (Premium, Unleaded).
  - Color This value, if enabled, indicates the color of the product that will be shown in the console.
- 2. Click **Next** to save and continue or **Prev** to go back.

## 4.3.3 Tank Configuration

The following window is now displayed where you program the tank configuration. The ID of the tank is the first parameter to configure and must be a numeric value. This value allows identify the tank in a Fusion Forecourt controller. Then you must set the capacity and the product

Γ		List of Tanks			Each tank has a unique number, and an associated product. Different tanks may		
l	number	Product	capacity	Delete	nave trie same product associated.		
l	1	Regular 💌	10,000				
	2	Mid 🔹	10,000		Sewell		
	3	Premium 💌	10,000		Succion		
l	Prev	Next Cancel			Conte Frente Fondo Conte Lateral		

#### Figure 38 Tank Configuration Window

- 1. Program the following options:
  - Tank Number Enter a numeric value for the tank which is used by Fusion to identify the tank.
  - **Product** Define a Product for the tank using the Product pull-down.
  - Capacity Enter the tank capacity.
- 2. Click **Next** to save and continue or **Prev** to go back.

## 4.3.4 Communication Configuration

The following window is now displayed where you program the communication configuration. Here you add the serial ports that you will use to connect the Single board computer with the loop board.

	L	ist of Communicat	ion		
Device ID	Туре	Port Name		Echo	Delete
Com1	Serial 💌	/dev/ttyS0	Com1	TRUE 💌	
Com2	Serial 💌	/dev/ttyS1	Com2	TRUE 💌	
USB2	Serial 💌	/dev/ttyUSB1	USB2	TRUE 💌	
	Serial 💌			TRUE 💌	
	Serial 💌			TRUE 💌	
	Serial 💌			TRUE 💌	
	Serial 💌			TRUE 💌	
	Serial 💌			TRUE 💌	
	Serial 💌			TRUE 💌	
	Serial 💌			TRUE 💌	
	Serial 💌			TRUE 💌	
Prev Next Car	ncel				

#### **Figure 39 Communication Configuration Window**

- 1. Program the following options:
  - Device ID Enter the Device ID of the communications port.
  - **Type** Select the type of communications for the port using the pull-down.
  - Port Name Enter the Port Name of the communications port.
  - Echo Define as True or False using the pull-down.
  - Delete Enable the Delete box to delete the entry.

2. Click **Next** to save and continue or **Prev** to go back.

## 4.3.5 Pump Configuration

The following window is now displayed where you program the pump configuration. To configure the pumps you must configured the Brand of the pump, if you have more than one brand, the quantity of hoses and the communication port, where the pump will be connected.

	List of Ass	Enter all the existings pumps			
Pump	Brand	Hoses Qty	Loop Manager	Delete	
1	Wayne 💌	6	Com1 💌		×
Prev	Next Cancel				

#### Figure 40 Pump Configuration Window

- 1. Program the following options:
  - **Brand** Select the pump Brand using the pull-down.
  - Hose Qty Enter the number of hoses per dispenser.
  - Loop Manager Select the communication port using the Loop Manager pull-down.
  - Delete Enable the Delete box to delete the entry.
- 2. Click **Next** to save and continue or **Prev** to go back.

#### 4.3.6 Hose Configuration

The following window is now displayed where you program the hose configuration. Configure the relation between the grades, the products, and the hoses of the pumps.

		Lis	t of Hose	5		Mirror Form Fill
		Logical ID	Physical ID	Grade ID	Suction high	Suction low De
Pump - 1						
	hose1	1	1	Regular 💌	1-Regular	Select Value 🗸 🛙
	hose2	2	2	Mid 💌	2-Mid	Select Value
	hose3	3	3	Premium 💌	3-Premium	Select Value
	hose4	4	4	Regular 💌	1-Regular	▼ Select Value ▼ Г
	hose5	5	5	Mid 💌	2-Mid	Select Value
	hose6	6	6	Premium 💌	3-Premium	▼ Select Value ▼ Γ
Prev Next	Cancel	- <b>I</b> •	<b>1</b>			- 1

#### Figure 41 Hose Configuration Window

- 1. Program the following options:
  - **Physical ID** Enter the physical ID of each hose on the pump.
  - Grade ID Select the Grade ID of the product for each hose.
  - Suction High Select the grade to be used for high suction
  - Suction Low Select the grade to be used for low suction (use this value when programming blenders)
  - **Delete** Enable the Delete box to delete the entry.

2. Click **Next** to save and continue or **Prev** to go back.

## 4.3.7 Applying the Configuration

1. To finish the configuration you must press the **End Process** button then click **Salir** to exit. See the following window.



Figure 42 End Process Window

2. Go to Configuration > Maintenance > Apply Configuration

DRESSER WAYNE	User: 🙎 ADMIN (en)	Store: (en) number: 1	00000 Fusion	0 Fusion Date: 3/3/2007 0:19:10 Kogout		
TEGSICIA	Configuration	Operation	Reports	Security		
	Generic					
	Devices					
	Manteinance	Original Co	onfiguration			
	Payment Types	Check Cor	figuration			
	Prices	Apply Conf	iguration			
	Others	Clear Conf	iguration			
		Eraser				

## Figure 43 Apply Configuration

3. The following confirmation window will be displayed. Click Close Window.

🚰 http://192.168.1.20 - Fusion Mess 🗐	
NEW CONFIGURATION APPLIED OK	<b></b>
Close Windows	
🔊 Done	-

Figure 44 Apply Configuration Confirmation

## 4.4 IP Address Configuration

The Fusion is configured with the IP Address of 192.168.1.20. If you need to change the IP address you must login the LINUX session with the user "ipchange" with the password "ipchange". There are two ways to do this, one is connecting a screen and a keyboard to the fusion box and the other is by starting an SSH session through the PuTTy software.

#### 4.4.1 How to use the Putty Software

- 1. To access Linux through the putty software go to the Start menu, look up the Putty Shortcut and click on it.
- 2. To start a session you have to complete the Host Name or IP address field and click Open.



Figure 45 PuTTY Configuration Window

3. The profile of this user will start a session in the IP change script where you can add the new values and restart the computer to apply the changes.

## 4.4.2 How to Change the IP Address

If you access through the Putty Software or using a Screen and a Keyboard you will follow the same steps, first you must login and then you have to add the network values and restart the computer to apply the changes.

login as: ipchange ipchange@10.10.3.15's	password:	

Figure 46 Login Screen

26



Figure 47 Confirmation Screen

I

PROGRAMMING
Wayne Fusion
Site Controller
Written by Tom Sigmon
This manual was produced on a personal computer using Adobe <sup>®</sup> FrameMaker <sup>®</sup> and Photoshop <sup>®</sup>
Page design uses Times New Roman and Arial Fonts Manuals were electronically produced on a IKON Publishing System
Copyright © 2010 Dresser, Inc.
All rights reserved. Printed in the United States of America.
Wayne, Nucleus and InSite are registered trademarks and iX is a trademark of Dresser, Inc.
IBM is a registered trademark of International Business Machines Corporation.
$Adobe^{ extsf{B}}$ FrameMaker <sup>®</sup> and Photoshop <sup>®</sup> are trademarks of Adobe Systems, Inc.
All other brand names and trademarks mentioned are the properties of their respective holders.
This manual and the software described within are furnished under license and may be used or copied only in accor- dance with the terms of such license.
No part of this publication may be electronically or mechanically reproduced, stored in a retrieval system, or transmitted, in any form or by any means, except as permitted by such license. Translation of this material to another language without express written permission of Dresser, Inc. is prohibited.
The information in this publication is for informational use only and is subject to change without notice. The contents should not be construed as a commitment by Dresser, Inc. who assumes no responsibility or liability for inaccuracies that may appear in this publication.
Dresser Wayne, Dresser, Inc., is located at 3814 Jarrett Way, Austin TX 78728. Wayne's general telephone number is (512)-388-8311.

NOTE: "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."

## Genuine Parts

PROTECT YOUR WARRANTY AND REGULATORY CERTIFICATIONS Insist on Dresser Wayne Genuine Parts for all equipment repairs and upgrades.



3814 Jarrett Way, Austin, TX 78728 ©2010 Dresser, Inc.