

OPUSSeries

***Amano McGann
Build 19 Count Monitor
Manual***

B19_Count_Monitor_08112014

AMANO

Date:

Monday, August 18, 2014

Notice of Rights:

Copyright © 2014 Amano McGann, Inc. All rights reserved. This document contains proprietary information and such information may not be reproduced whole or in part without written permission from:

Amano McGann, Inc.
 2699 Patton Road
 Roseville, Minnesota 55113

Notice of Liability:

Amano makes no representations or warranties with respect to the accuracy or completeness of the contents of this work and specifically disclaim all warranties, including without limitation, warranties of fitness for a particular purpose. Amano reserves the right to make equipment changes and improvements that may not be reflected in this document. Portions of this document may have been updated to include the latest hardware or firmware version, if applicable.

We recommend that this document be read in its entirety before any attempt is made to operate the equipment.

Trademark Notice:

Amano is a registered trademark of Amano Inc. All other trademarks are the property of their respective owners.

Contact Information:

Every effort has been made to ensure the accuracy of this document. If you have comments, question, or ideas regarding this document please send them to Amano via e-mail to:

techwriter@amanomcgann.com

or, via postal mail to:

Amano McGann, Inc.
 Technical Writer
 2699 Patton Road
 Roseville, Minnesota 55113

For more information about Amano’s complete line of products, visit our web site at:

www.amanomcgann.com

Date	Monday, August 18, 2014
Product	Amano McGann
Build/Revision	A2
Model	Build 19 Count Monitor
Document Type	Manual
Version	A1
Company Name - Long	Amano McGann, Inc.
Company Name - Short	Amano McGann
Street	2699 Patton Road
City/State/Postal Code	Roseville, Minnesota 55113
Telephone	(612) 331-2020
Fax	(612) 331-5187
Email	info@amanomcgann.com
Website	www.amanomcgann.com
Copyright	Copyright © 2014 Amano McGann, Inc. All rights reserved.
File Name	B19_Count_Monitor_08112014


BUILD 19 COUNT MONITOR

The Count Monitor system monitors all devices at a facility and records counts, alarms, and user activity in database files. The program provides automatic and manual control of gates, full signs, and other devices. User-friendly screens offer quick access to device control, entrance, exit, and differential counts.

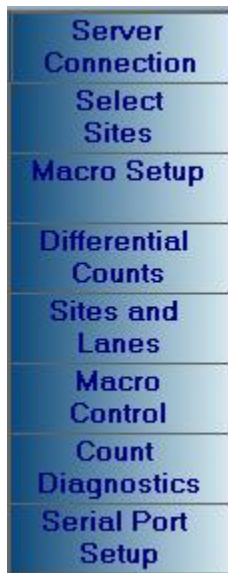
Build 19 Count Monitor	5
1.0 Starting Count Monitor	5
1.1 The Count Monitor Toolbar	5
[Fig. 1.1A]	5
[Fig. 1.1B]	5
2.0 The File Menu	6
2.1 Opening or Switching to Other iParcProfessional Applications	6
2.2 Exiting Count Monitor	6
3.0 The Help Menu	6
3.1 Contents	6
3.2 About	6
[Fig. 3.2A]	6
4.0 The Password Menu	7
5.0 Server Connection	7
6.0 Select Sites	9
[Fig. 6.0A]	9
7.0 Macro Setup	9
7.1 Adding Macros	10
[Fig. 7.1A]	10
[Fig. 7.1B]	10
7.1.1 Instant Macro	11
7.1.2 Interval Macro	11
[Fig. 7.1C]	11
7.1.3 Differential Macro	12
[Fig. 7.1D]	12
7.2 Editing Macros	12
7.3 Deleting Macros	13
7.4 Reversing Lanes	13
7.4.1 Instant Macro	13
[Fig. 7.4A]	13
7.4.2 Interval Macro	13
8.0 Differential Counts	14
[Fig. 8.0A]	14
8.1 Differential Types	14
8.2 Adjusting Differential Settings	15
[Fig. 8.2A]	15
9.0 Sites and Lanes	15
[Fig. 9.0A]	16
[Fig. 9.0B]	16
[Fig. 9.0C]	17
[Fig. 9.0D]	17
[Fig. 9.0E]	17
10.0 Macro Control	17
[Fig. 10.0A]	17
11.0 Count Diagnostics	18

12.0 Serial Port Setup	18
<i>[Fig. 12.0A]</i>	18

STARTING COUNT MONITOR

To open Count Monitor, press the Windows *Start* button and press the  arrow to reveal all programs. Once all programs are displayed, click on the Count Monitor application. Right click Count Monitor and select *Pin to Start* and/or *Pin to taskbar* for easier access.

1.1 The Count Monitor Toolbar



[Fig. 1.1A]

Server Connection: Defines the IP address and port number of the Count Monitor server.

Select Sites: Allows a location to control multiple sites.

Macro Setup: Creates macros for lot automation.

Differential Counts: Displays total facility, contract, transient counts, and any other differentials associated with the facility. This menu also allows users to adjust counts for the listed differentials.

Sites and Lanes: Enables users to view the device states and includes the ability to control the devices.

Macro Control: Allows *Immediate Macros* to be triggered.

Count Diagnostics: Displays packets sent and received by the Count Monitor system.

Serial Port Setup: Determines the COM ports and boards used in Count Monitor.



[Fig. 1.1B]

Help: Provides access to the Amano McGann Documentation Library.

Password: Allows for the administration of User Groups, configuration of a password server, and user sign on/sign off.

The username beside *Password* displays the current signed in iParcProfessional user.


THE FILE MENU

The *File* menu allows users to switch to, or open, other installed iParcProfessional applications and to exit the Count Monitor system.

2.1 Opening or Switching to Other iParcProfessional Applications

To open other iParcProfessional programs, open the *File* menu and select the application to open. If any application is grayed out or disabled, the application is currently open and displayed, or the application is not installed on the PC.

2.2 Exiting Count Monitor

Select **File** followed by **Exit**, or press the red  in the upper-right corner.

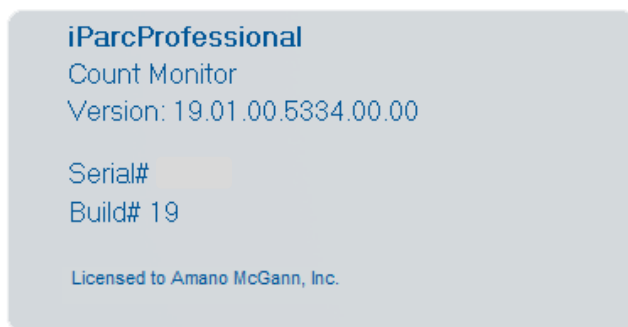
THE HELP MENU

3.1 Contents

The *Contents* menu contains the documentation library for Amano McGann products. Please refer to the documentation library as well as Amano McGann University for questions regarding an Amano McGann product.

3.2 About

The *About* menu contains information regarding the build of Count Monitor and the contact information for Amano McGann, Inc.



Version: Version of Count Monitor

Serial: Site serial number

Build: Build of iParcProfessional

Licensed to: Name of the site the iParcProfessional software is licensed to

[Fig. 3.2A] About Menu

THE PASSWORD MENU

Clicking the *Password* button signs a user in and out of the iParcProfessional software. Additional password menus display if the *Password* button is right-clicked. These menus allow a user to adjust password options, edit user groups, and setup a password server.

To create a new user, right click the **Password** button and select **Edit User Groups**. The *User Groups* menu consists of the *SuperUsers* group and any additional groups created by the user. Select the **SuperUsers** group and click **Add User** to create a user with the highest privilege. To create a user with restricted privileges, click the **Add Group** button, verify the *Super Group* box is not checked, name the group, and click **OK** when finished. Add a user to the new group by clicking the new group and selecting the **Add User** button.

Users not in the *SuperUsers* group have the following restrictions:

- Cannot access the *Server Connection* tab.
- Cannot adjust any differential values in the *Differential Counts* menu.
- May only pulse macros in the *Sites and Lanes* menu.
- Cannot enable alarms or adjust alarm timers.
- Cannot *Clear All Resettable Event Counts*.

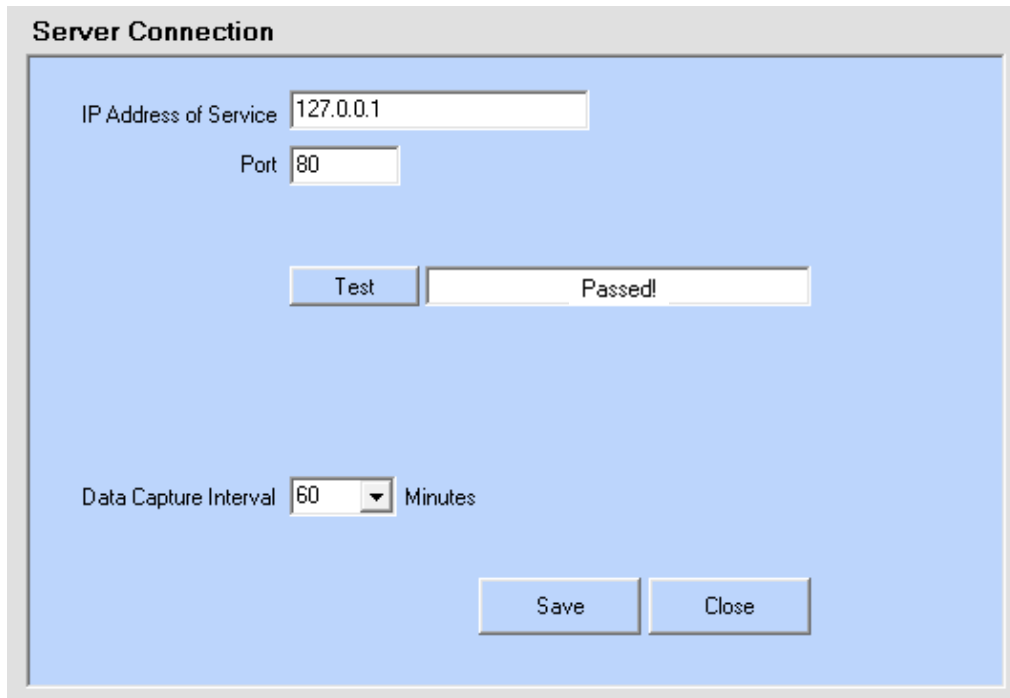
To adjust the password policy, right-click the **Password** button and select **Password Options**. The *Password Options* menu is responsible for controlling password requirements for all users. The sign in password requirement may be disabled by unchecking the box beside *Password Enabled*.

The *Password Options* menu is also responsible for enabling the touch screen feature and disabling time synchs.

SERVER CONNECTION

The *Server Connection* menu allows Count Monitor to connect to a local or external Count server. If the Count server is local, the IP address of the server connection is **127.0.0.1**. If the Count server is not local, enter the main Count server IP address in the *IP Address of Service* field.

The *Port* field allows Count Monitor to use a desired port for communication. A typical Count Monitor configuration uses port **80**.



[Fig. 5.0A] The Server Connection menu

Once the Count server IP and port have been entered, press the **Test** button to test the Count server connection. If the test is successful, a *Passed!* message will display. If the test is unsuccessful, a *Failed...No Service* message will display.

Adjust the amount of time Count Monitor waits before saving the differential and non-reset counts to the database with the *Data Capture Interval* dropdown. This time is adjusted for reporting purposes.

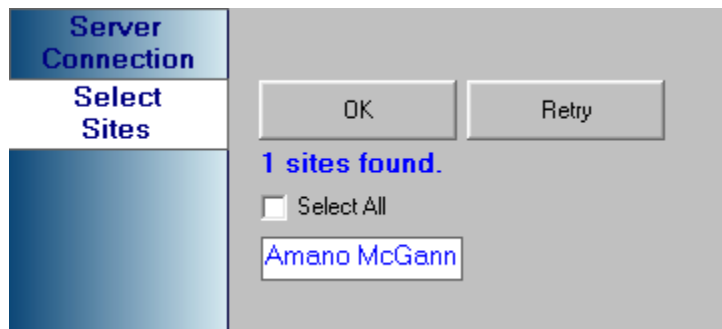
Once all desired values have been entered, press the **Save** button to finish. The *Server Connection* menu will automatically close. A blinking green light on the *Server Connection* tab designates a good Count server connection.

Select Sites

Once a Count server connection has been established, multiple sites can be selected to count depending on site configuration.

Click **Select Sites** in the Count Monitor toolbar to start adding sites to the Count Monitor system. After *Select Sites* has been clicked, a list of available sites will display in the main Count Monitor window. Click on a site name to select the site. Continue to select other sites if necessary. Click the **Select All** box to select all listed sites.

Click the **Retry** button if no sites were found.



[Fig. 6.0A] Select the desired sites to keep counts for

Press **OK** once the desired sites have been selected. The *Differential Counts* and *Sites and Lanes* menus will automatically display in the Count Monitor window.

MACRO SETUP

Macros allow users to turn ON/OFF controls at any time of day, or to immediately activate/deactivate controls. Macros also allow users to activate/deactivate controls when a *Differential* count is above, below, or equal to a user-specified level.

Click the **Macro Setup** button to start creating a new macro.

7.1 Adding Macros

Macros allow a user to increase lane automation.

Create a macro by clicking the **Add** button in the *Macro Setup* menu. Once *Add* is clicked, the macro configuration windows will display.

Macro Name: The name the macro appears as in the *Macro Control* menu.

On/Off: Determines whether or not the macro may be used.

Macro Type: Defines when/how the macro is triggered.

[Fig. 7.1A]

Enter a *Macro Name*, click the **Macro Disabled** text to enable the macro, and click the radio button next to the *Macro Type* desired to create. Depending upon the *Macro Type* selected, various sub-menus will display.

After a macro type is selected, the macro will become editable. Click the box beside the site name, click **Edit**, and **Show->** to display all of the usable outputs and counters. Select the action desired to perform in the *All Devices* window and click the output switch to turn the output ON or OFF. In the example below, the entrance and exit gates would raise depending on the macro type.

[Fig. 7.1B] Assign actions to a macro for site automation

Place a check next to each device and action desired to associate with the macro. Once the desired counters/output controls have been selected, click the **Selected Devices for Current Macro** tab to review the device actions. If all device actions are correct, click the **Save** button in the left-side window.

7.1.1 Instant Macro

Instant macros trigger only when a button is pressed in the *Macro Control* window.

Click the *Instant* radio button in the *Macro Type* section to create an instant macro. There are no additional sub-menus as instant macros are only added to the *Macro Control* menu where they are controlled by user input.

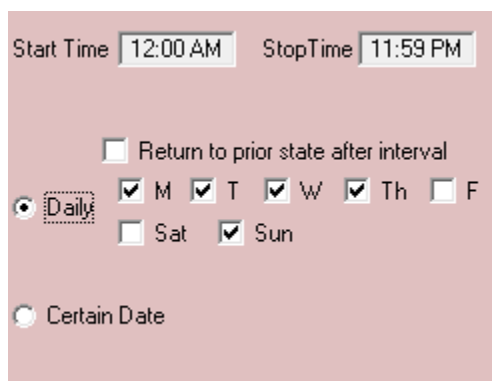
Select the site associated with the macro and click **Show**. Configure the macro to match the site's needs. Click **Macro Disabled** to switch to *Macro Enabled*, and click **Save** when finished.

The instant macro will now display in the *Macro Control* menu.

7.1.2 Interval Macro

An interval macro holds for a designated period of time either on a specified date, or daily on specified days.

Click the *Interval* radio button in the *Macro Type* section to create an interval macro. After the *Interval* radio button is selected, a sub-menu will display allowing the user to configure the holding time, holding days, and holding date.



[Fig. 7.1C] Interval Sub-Menu

Start Time: The time the macro activates.

Stop Time: The time the macro deactivates.

Return to prior state after interval: Macro will go back to its prior state after it is finished, rather than holding the state it was in when the *Stop Time* was reached.

Daily: The macro runs every week on a specified day(s).

Certain Date: The macro runs once on a certain date every year.

Select the site associated with the macro and click **Show**. Configure the macro to match the site's needs. Click **Macro Disabled** to switch to *Macro Enabled*, and click **Save** when finished.

7.1.3 Differential Macro

A differential macro activates when the associated differential count decreases to a user-set number. The macro deactivates when the associated differential count rises to a user-set number.

Click the *Differential* radio button in the *Macro Type* section to create a differential macro. Once the differential radio is selected, a sub-menu will display allowing the user to configure the ON/OFF activation counts for the macro.

Start Time: The time the macro activates.

Stop Time: The time the macro deactivates.

Daily: The macro runs every week on a specified day(s).

Certain Date: The macro runs once on a certain date every year.

Select Differential: The count type the On#/Off# count uses

On #/Off #: The number the macro uses when activating/deactivating.

[Fig. 7.1D] Differential Sub-Menu

In the example above, the macro would turn ON once the facility count reached 300 parkers. The macro would turn OFF once the facility count reached 298. This macro configuration is common for sites with 'FULL' signs.

Select the site associated with the macro and click **Show**. Configure the macro to match the site's needs. Click **Macro Disabled** to switch to *Macro Enabled*, and click **Save** when finished.

7.2 Editing Macros

If changes need to be made to an existing macro, a macro may be edited via the *Macro Setup* menu.

Click on the macro desired to edit. The macro configuration will display once the macro has been selected. Make the necessary changes and click **Save** when finished.

7.3 Deleting Macros

A macro may be deleted if it is no longer necessary.

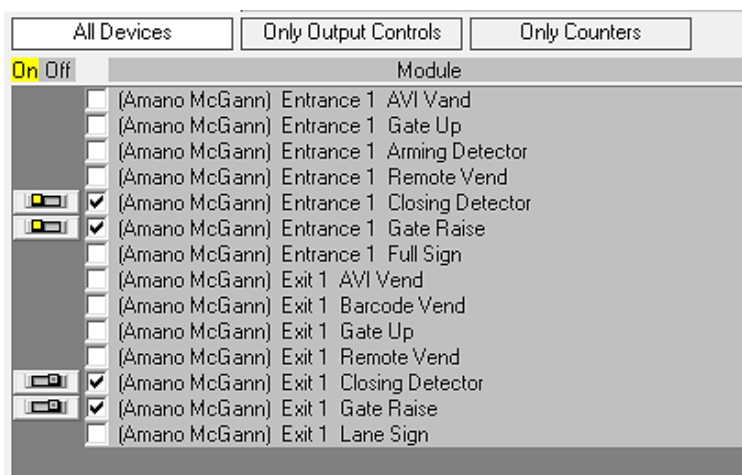
Click on the **Macro Setup** menu and select the macro desired to delete. Once the macro is highlighted, press the **Delete** button. The macro is removed from the *Macro Setup* list.

7.4 Reversing Lanes

Reversing lanes can be used as both entrance and exit lanes. In order to setup reversing lanes, users must setup macros to control the direction in which the lane is used and at what times it is to be used in the specific direction.

7.4.1 Instant Macro

Add an instant macro and assign the proper output action to the devices being used for the reversing lane. Reversing lane macros will have actions on both entrance and exit lanes. In the example below, the closing detector is turned ON and the gate is raised for the entrance lane. The outputs are turned OFF for the exit closing detector and gate raise for the exit lane. This macro would set the lane as an entrance lane as the closing detector is triggering and the gate is raising for the entrance device.



[Fig. 7.4A] Create reversing lanes by binding a macro to both entrance and exit lanes

7.4.2 Interval Macro

Use an interval macro in the same fashion as an instant macro but assign the times for the devices to remain in their reversal lane configuration. The interval macro will determine when the lane is an entrance and when it is an exit via the *Start/Stop* times and the associated output modules.

Differential Counts

The *Differential Counts* menu displays the total facility counts, contract counts, transient counts, and any other differentials associated with the facility. Differential counts are derived from the non-reset counts that either add to the count, or subtract from the count. The user can adjust any of the *Occupied* and *Available* counts. Alerts can be set to notify the user when a differential reaches a specified number.

Click the **Differential Counts** tab to open the *Differentials* window.

Differentials									
Site Name	Differential	Occupied	Available	Total	Pct Full	Reset Time	Reset Val	Yellow Alert	Red Alert
Amano McGann	Facility	-32	32	0	0	disabled	0	5	3
Amano McGann	Transient	-22	22	0	0	disabled	0	4	2
Amano McGann	Contract	-10	10	0	0	disabled	0	2	1
Amano McGann	misc	0	0	0	0	disabled	0	5	0
Amano McGann	barcode	0	0	0	0	disabled	0	5	0

[Fig. 8.0A] The *Differential Counts* menu displays the counts of multiple parking types

Site Name: Name of the site the counts are associated with.

Differential: Parking type

Occupied: Number of spaces occupied in the associated differential.

Available: Number of spaces not occupied

Total: Total number of spaces

PCT Full: Percentage occupied of the associated differential.

Reset Time: The time the resettable counts reset

Reset Val: The value the count resets to once the *Reset Time* is reached.

Yellow Alert: The number of spaces left when a column displays a caution alert.

Red Alert: The number of spaces left when a column displays a warning alert.

8.1 Differential Types

The three most common differential types associated with Count Monitor are the facility differential, the transient differential, and the contract differential. The *facility* differential consists of all differentials. The *Transient* differential is responsible for tracking the non-contract, transient parkers entering and exiting the facility. The *Contract* differential tracks parkers who have contract accounts with the parking facility.

8.2 Adjusting Differential Settings

To adjust the value of the differential, click the current value desired to alter. The columns available for alteration are: *Occupied*, *Available*, *Total*, *Reset Time*, *Reset Value*, *Yellow Alert*, and *Red Alert*.

An additional window displays once the current value is selected.

The image shows a small dialog box with a dark header containing the text "Enter Spaces Occupied". Below the header is a white text input field containing the number "2". To the right of the input field are two buttons: "Apply" and "Cancel".

[Fig. 8.2A] Edit the value by clicking the current value

Enter the desired value in the field and press **Apply** when finished or press **Cancel** to cancel the alteration.

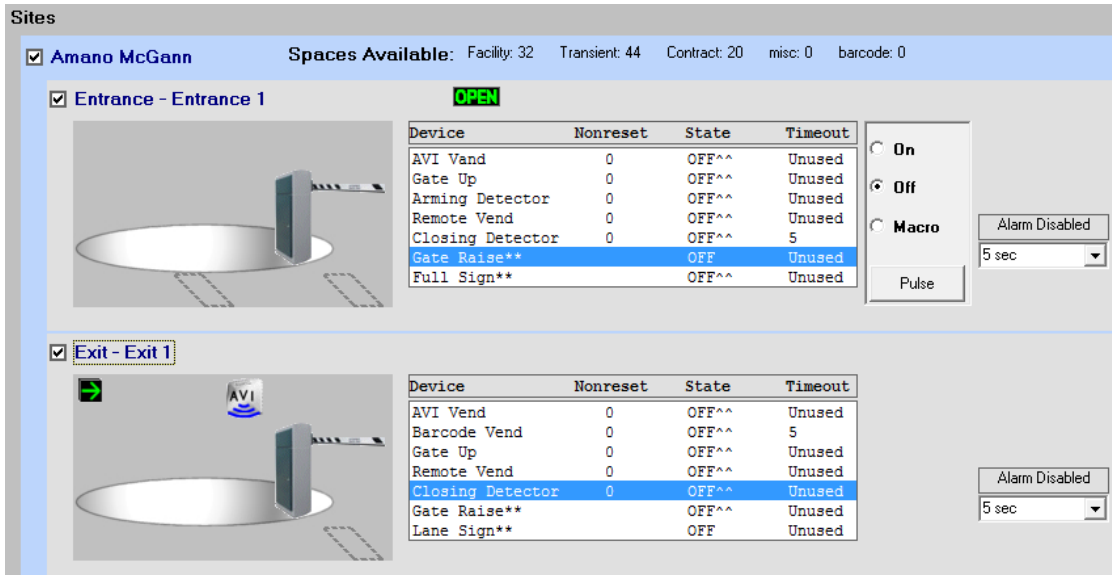
If *Reset Time* was clicked, an additional *Disabled* button will display. Click **Disabled** to disable the reset time. Please use a 24-hour format when entering the reset time and click **Apply** when finished. The new reset time appears in the column as a 12-hour format.

SITES AND LANES

The *Sites and Lanes* menu shows the current state of each lane device and allows a user to pulse each of the devices. Alarms may be enabled for each device, notifying the user when the ON state of the device has not changed for more than a designated period of time.

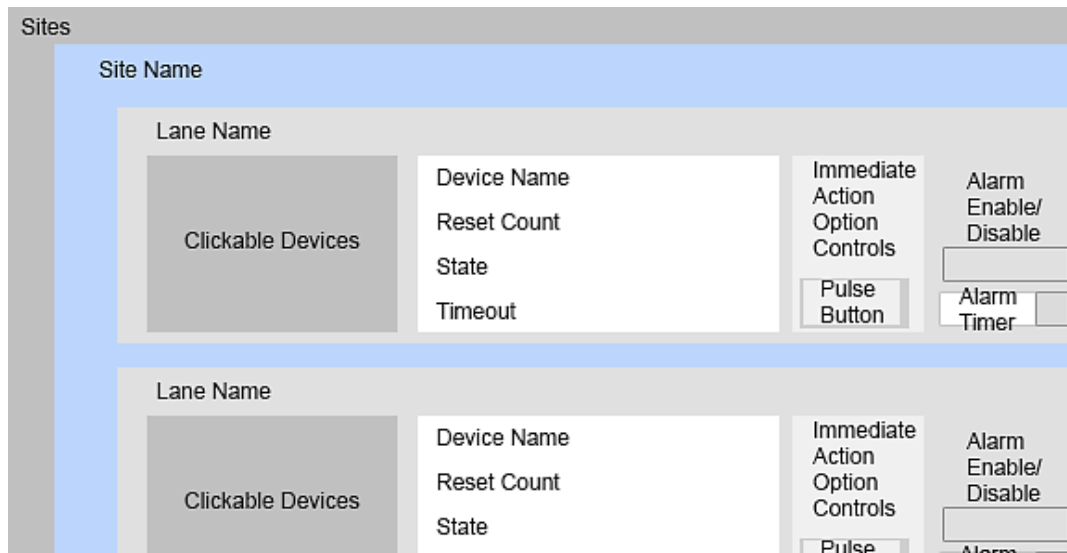
To view the status of a device, click the **Sites and Lanes** menu. The sites are listed with their current number of spaces available for the facility differential, the transient differential, the contract differential, and any other differential associated with the site.

Click the box beside the site name to expand the *Sites* window. Once a checkmark has been placed inside the box, the available entrance and exit lanes will display. Click the boxes beside each entrance and exit lane to expand their windows.



[Fig. 9.0A] Click a device action to display the pulse options

The layout of the *Sites* menu is as follows:

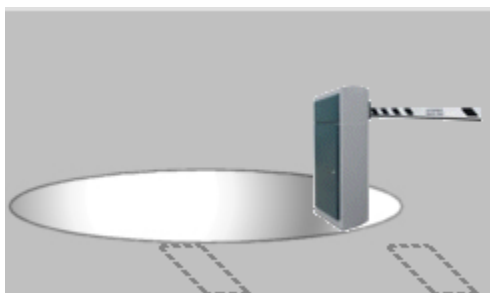


[Fig. 9.0B] Sites and Lanes layout

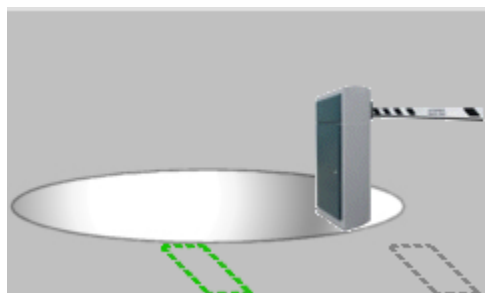
Either click on the device in the device image window or click the device from the device list. Pulse and alarm options become available for use once the device is selected.

To control the device, click the device in the device list, select the desired *State*, and press the **Pulse** button. The device display window will show the changed state of the device. The *Macro* state sends a signal turning the module ON for one second, and sends an additional signal turning the module OFF.

The device display window shows the current status of the device in real-time. If a parker were to pull onto the arming loop, the arming detector in the device display window would look similar to the image below.



[Fig. 9.0C] Arming loop OFF



[Fig. 9.0D] Arming loop ON

When an alarm is enabled, the alarm will display on screen after a set amount of seconds, determined by the *Alarm Timer*. The alarm timer counts the amount of time a device has remained in an ON state. If the device remains in an ON state longer than the designated amount of time, the alarm will display in the *Alarms* pop-up window.

Site	Lane	Device	Date

[Fig. 9.0E] Alarms pop-up window

MACRO CONTROL

After an instant macro has been saved, it becomes available for use in the *Macro Control* menu.



[Fig. 10.0A]

Click an immediate macro button to run the macro. A pop-up window will display confirming the macro's execution.

Click **Yes** on the pop-up to confirm the macro execution or click **No** to cancel the immediate macro execution.

COUNT DIAGNOSTICS

The *Count Diagnostics* menu displays the packets sent and received by Count Monitor. The packet diagnostics may be written to a log file if desired. To log packet diagnostics, click the box beside *Write Packet Log Files*. The log files will be saved in *C:\AmanoMcGann\Count\logfiles* as a *.dat* file type. Please open the file with Notepad or Notepad ++.

The number of packet errors is displayed beside the *Packet Errors* text. Please consult the *Packet Errors* diagnostic to verify if Count Monitor is sending/receiving bad data when experiencing slowdowns.

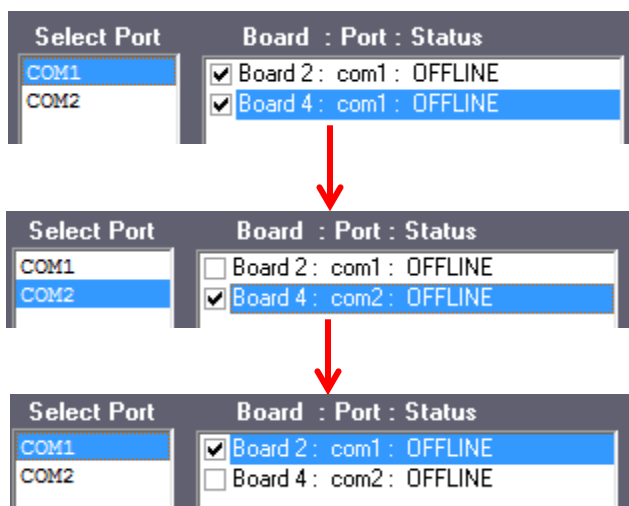
Press the **Clear All Resettable Event Counts** button to clear all of the possible resettable values in the *Sites* menu.

SERIAL PORT SETUP

The *Serial Port Setup* menu determines what COM ports and boards are associated with Count Monitor. Click **Serial Port Setup** to add and remove boards from Count Monitor.

Click the engine associated with Count Monitor. The available COM ports are displayed along with their available boards. Click a COM port and place a check in the box beside the board number. The change is automatically saved.

Note: A board may not be associated with multiple COM ports. Attempting to place a check beside the board for more than one COM port will result in the board only using the latest modified COM port. See the example below:



[Fig. 12.0A]