



EZ Series® In-site® CL control panel

EZ Connect User Guide

SUPPORTED PLATFORMS

The EZ Connect software is designed to run on Microsoft Windows 7. It is also supported for use on Windows XP, Windows Vista installations that have the .NET framework 2.0 or higher installed. If the .NET framework is not installed, the EZ Connect installer will prompt you to install it. Running the program executable without the framework present will result in an error.

MINIMUM SYSTEM REQUIREMENTS

- Intel Pentium III 800 MHz or AMD Duron 800 MHz
- 512 MB RAM
- Windows XP Service Pack 2, Windows Vista, & Windows 7 (.NET 2.0 installation)
- 10 MB free hard drive space
- 1024 x 768 screen resolution
- Available USB port

OPERATION

The EZ Connect application is provided to support the EZ Series® In-Site® CL product line. EZ Connect has two primary functions. First, it is used to set operation parameters in the EZ Series In-Site CL panel. Second, it is used to transfer events stored in the panel to a PC file. The information is then read into the In-Site Reporting application.

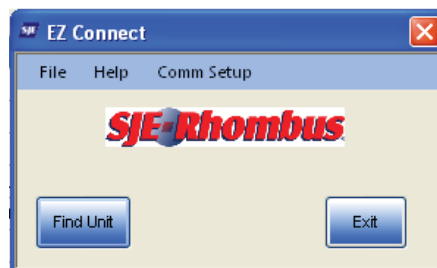
The application uses the ModBus communications protocol to interface with the EZ Series In-Site CL panel. The interface is an industry standard and will allow other SCADA based applications to access and monitor the EZ Series In-Site CL panel.

A NOTE ABOUT MAKING CHANGES

When making changes to parameters or data, the application tracks pending changes by changing the field background color to yellow. Clicking the **Apply** button sends the changes to the panel. The yellow background color is removed when the panel confirms the change has been applied. If a user attempts to exit after changing an item without clicking the **Apply** button, EZ Connect will display a warning message. The user is given the option to return to complete the update or continue exiting the display.

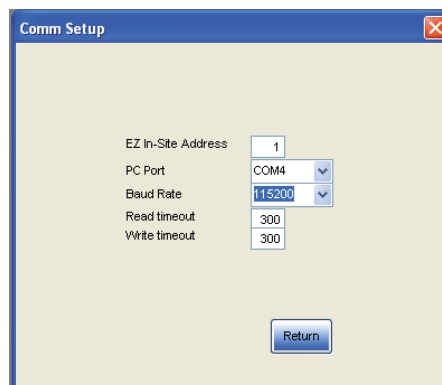
CONNECTING TO AN EZ IN-SITE CL PANEL

Attach a portable PC to the EZ Series In-Site CL panel via the EZ Series In-Site CL data connection cable (SJE part number 1032222). The user starts the EZ Connect application and establishes a connection from the PC to the EZ Series In-Site CL panel. The application starts with an EZ Connect welcome display.



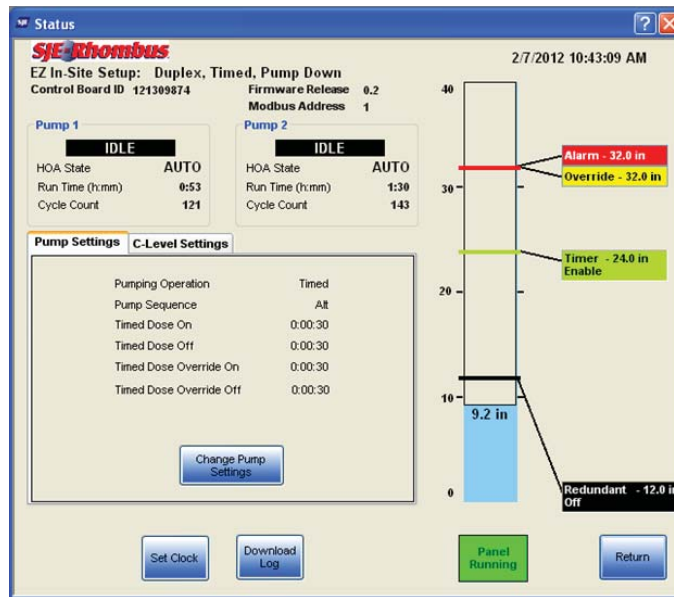
Click on the **Find Unit** button to search for and connect to an EZ Series In-Site CL panel. The application will either display a "unit not found" pop-up message, or will go to the *Status* display screen. The **Exit** button will close the application.

The Comm Setup menu option takes the user to the *Comm Setup* display. This option is used for configuring the communication settings for the PC. These settings should not be changed without instruction from an SJE-Rhombus Customer Service Representative.



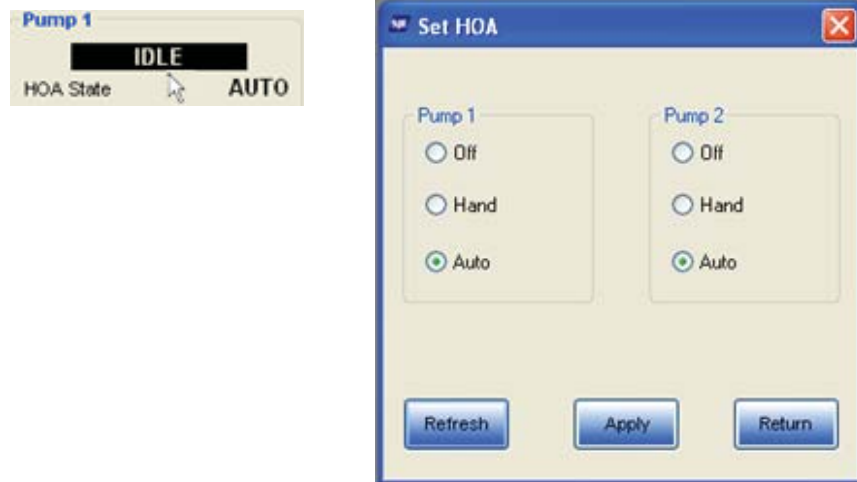
STATUS DISPLAY

The *Status* display offers a quick reference to EZ Series In-Site CL operating parameters. All settings are updated once per second. The information is read only and the user must go to other displays to change run parameters.



CHANGING HAND-OFF-AUTO SETTING

Clicking the HOA State or the current state of Pump 1 or 2 on the Status display screen opens a pop-up menu that allows Hand-Off-Auto pump mode selection.



If changes to the HOA settings were made, unapplied changes will be highlighted in Yellow. Click the **Apply** button to save the changes before returning to the *Status* display or the changes will not be recorded in the EZ Series In-Site CL panel.



Note: Clicking the **Apply** button helps prevent the user/unit from "Accidental" setting changes and causing potential damage to the user/unit.

ERASING PUMP RUN TIME

Run Time (h:mm)	0:53
Cycle Count	121

Clicking on either "Run Time" or the current value in the *Status* display screen will issue a prompt to erase the Run Time. **Two** prompts will be given before the Time is erased. (**Note: Erasing Pump Run Time is a permanent operation and the action cannot be reversed.**)

Prompt 1

Erase Pump 1 Run Time?

Are You Sure You Want To Erase Pump 1 Run Time?

Yes No Cancel

Prompt 2 - Clicking Yes will permanently erase the Pump Run Time value

Erase Pump 1 Run Time?

This Will Permanently Erase Pump 1 Run Time!

Are You Really Sure You Want To Erase?

Yes No

ERASING PUMP CYCLE COUNT

Run Time (h:mm)	0:53
Cycle Count	121

Clicking on either "Cycle Count" or the current value in the *Status* display screen will issue a prompt to erase the Pump Cycle Count. **Two** prompts will be given before the count is erased. (**Note: Erasing Pump Cycle Count is a permanent operation and the action cannot be reversed**)

Prompt 1

Erase Pump 1 Cycle Count?

Are You Sure You Want To Erase Pump 1 Cycle Count?

Yes No Cancel

Prompt 2 - Clicking Yes will permanently erase the Cycle Count value

Erase Pump 1 Cycle Count?

This Will Permanently Erase Pump 1 Cycle Count!

Are You Really Sure You Want To Erase?

Yes No

SETTING PUMP PARAMETERS

Clicking on the **Pump Settings** tab on the *Status* display screen shows the current Pump Settings.

Status

SJE Rhombus

EZ In-Site Setup: Duplex, Timed, Pump Down
Control Board ID: 121309874
Firmware Release: 0.2
Modbus Address: 1

2/7/2012 10:43:09 AM

Pump 1
IDLE
HOA State: AUTO
Run Time (h:mm): 0:53
Cycle Count: 121

Pump 2
IDLE
HOA State: AUTO
Run Time (h:mm): 1:30
Cycle Count: 143

Pump Settings | C-Level Settings

Pumping Operation	Timed
Pump Sequence	Alt
Timed Dose On	0:00:30
Timed Dose Off	0:00:30
Timed Dose Override On	0:00:30
Timed Dose Override Off	0:00:30

Change Pump Settings

Set Clock Download Log Panel Running Return

Water Level Scale (0 to 40 inches):
Alarm - 32.0 in
Override - 32.0 in
Timer - 24.0 in Enable
9.2 in
Redundant - 12.0 in Off

To change pump operation parameters, click on the **Change Pump Settings** button to open the *Change Parameter* display.

Change Parameter

Setup

Pumping Operation: Timed
Pump Configuration: Duplex
Pump Sequence: Alt

Timed Dose Settings

Timed Dose "On": 0:00:30
Timed Dose "Off": 0:00:30
Override Timed Dose "On": 0:00:30
Override Timed Dose "Off": 0:00:30

Refresh Apply Return

Clicking on “Timed Dose Setting” in the “Change Parameter” screen opens a dialog box for the **Enter Time** function.

The dialog box is titled "Change Parameter" and contains a sub-dialog titled "Enter Time". The sub-dialog has a text field labeled "Timed Dose On" with the value "0:00:30" displayed. Below the text field are "Cancel" and "Done" buttons. The main dialog also has "Refresh", "Apply", and "Return" buttons.

Adjust the setting to the desired time and click the **Done** button when complete.

The new value is displayed in the “Change Parameter” screen with a yellow background. Click the **Apply** button before exiting the screen for changes to be downloaded to the panel.

The "Change Parameter" screen displays various settings. Under "Timed Dose Settings", the "Timed Dose *On*" value is highlighted in yellow and set to "0:00:20". Other settings include "Timed Dose *Off*" (0:00:30), "Override Timed Dose *On*" (0:00:30), and "Override Timed Dose *Off*" (0:00:30). The screen also has "Refresh", "Apply", and "Return" buttons.

Continue to select run parameters to be changed as needed. Click the **Apply** button to have the changes sent to the EZ Series In-Site CL panel. Unapplied changes will be highlighted with **yellow**.

The pump's configuration can also be changed in the “Change Parameter” screen. Changing the **Pump Configuration** will set the HOA state to **OFF**. The user must **manually** return the state to Auto to resume normal operation.

Note: Clicking the **Apply** button helps prevent the user/unit from “Accidental” setting changes and causing potential damage to the user/unit.

If changes are not applied and the user clicks the **Return** button the following prompts will appear:

The dialog box is titled "Discard - Go Back" and contains the text "Do you want to Discard Changes or Go Back?". Below the text are "Discard Changes" and "Go Back" buttons.

Clicking the **Discard Changes** button opens the *Status* display and changes will **not** download to the panel. Clicking the **Go Back** button re-opens the “Change Parameter” screen.

CHANGING LEVEL SETTINGS

Clicking on the **C-Level Settings** tab shows the current C-Level sensor settings.

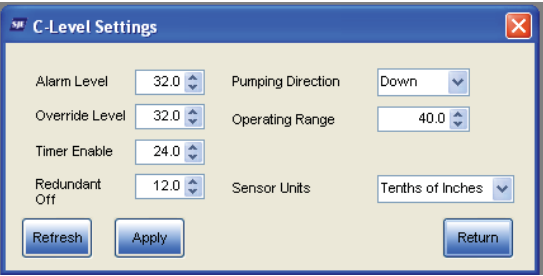
The "Status" screen displays system information and a level gauge. The "C-Level Settings" tab is active, showing a table of settings:

Sensor Units	Tenths of Inches
Pumping Direction	Down
C-Level Range	40.0
Operating Range	40.0
Alarm Setpoint	32.0
Override Level	32.0
Timer Enable	24.0
Redundant Off	12.0

Below the table is a "Change level Settings" button. To the right, a level gauge shows the current level at 9.2 in. Labels on the gauge include "Alarm - 32.0 in", "Override - 32.0 in", "Timer - 24.0 in Enable", and "Redundant - 12.0 in Off". The screen also has "Set Clock", "Download Log", "Panel Running", and "Return" buttons.

The *C-Level Settings* display allows the user to enter pumping direction, operating range, sensor units and set-point levels. To change the C-Level sensor settings, click the **Change Level Settings** button. **Note:** Pumping direction should NEVER be changed in a given installation, where the direction of flow is fixed.

Changing the pumping direction requires the set-point levels to be changed and sets the HOA state to **OFF**. The user must **manually** return the state to **Auto** to resume normal operation.



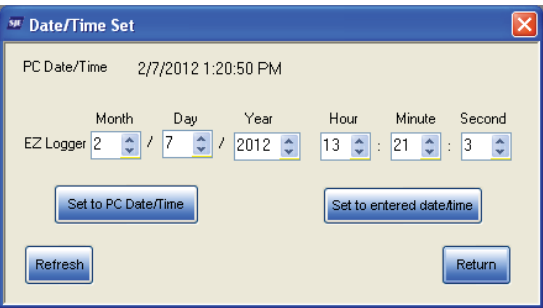
The C-Level Settings dialog box contains the following controls:

Parameter	Value
Alarm Level	32.0
Override Level	32.0
Timer Enable	24.0
Redundant Off	12.0
Pumping Direction	Down
Operating Range	40.0
Sensor Units	Tenths of Inches

Buttons: Refresh, Apply, Return

SETTING THE EZ SERIES IN-SITE CL CLOCK

Clicking the **Set Clock** button on the *Status* display screen opens the “Date/Time Set” screen to set the date and time of the EZ Series In-site CL panel.

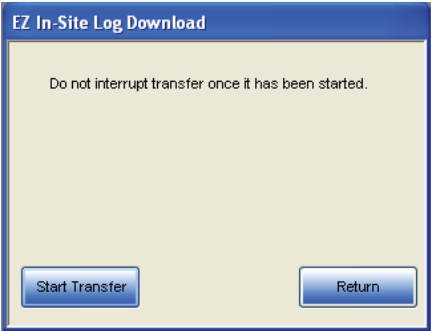


The Date/Time Set dialog box displays the PC Date/Time as 2/7/2012 1:20:50 PM. It includes input fields for Month (2), Day (7), Year (2012), Hour (13), Minute (21), and Second (3). Buttons include Set to PC Date/Time, Set to entered date/time, Refresh, and Return.

The date and time can be set by using the up and down arrows and then clicking the **Set to entered date/time** button. Another option is to click on **Set to PC Date/Time** button. The **Refresh** button will read the date/time from the panel and display it. The **Return** button re-opens the *Status* display screen.

DOWNLOADING THE EVENT LOG

The **Download Log** button on the *Status* display screen opens the “EZ In-Sit Log Download” display.



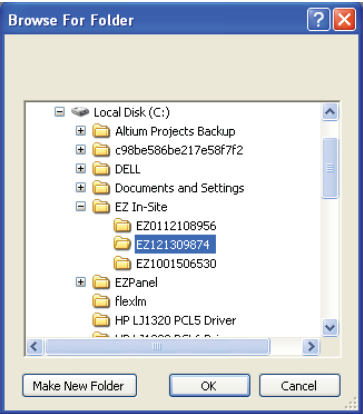
The EZ In-Site Log Download dialog box contains the instruction: "Do not interrupt transfer once it has been started." Buttons include Start Transfer and Return.

Pressing the **Start Transfer** button reads the events that have accumulated in the panel and puts the information into a file for the In-Site Reporting application.

After clicking the **Start Transfer** button the user is prompted to select a folder. Transferred information is stored in a file in the “C:\EZ In-Site\EZ#####” folder by default, where ##### is the Control Board ID number. A different folder can be chosen if desired.

The transferred information is in a file named “TfrYYYYMMDD”, where YYYY is the year, MM is the month number, and DD is the day of the month number. The file can be viewed only with the In-Site Reporting application.

Note: Use separate folders for each panel. An example of separate folders is shown below where EZ Series In-Site CL panel EZ121309874 has a different folder than EZ Series In-Site CL panel EZ1001506530. This prevents log files from being overwritten.

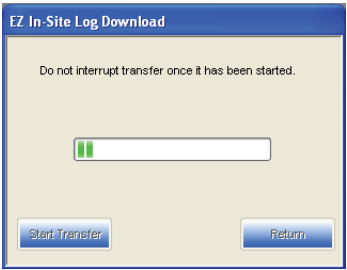


The Browse For Folder dialog box shows a file tree for Local Disk (C:). The folder structure includes:

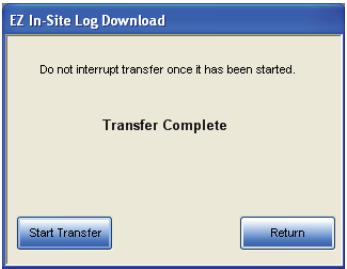
- Altium Projects Backup
- c98be586be217e58f7f2
- DELL
- Documents and Settings
- EZ In-Site
 - EZ0112108956
 - EZ121309874 (selected)
 - EZ1001506530
- EZPanel
- flexlm
- HP L31320 PCL5 Driver

Buttons: Make New Folder, OK, Cancel

Information begins to transfer after a folder location is selected and the **OK** button is clicked. The progress bar shows the current status of the transfer.



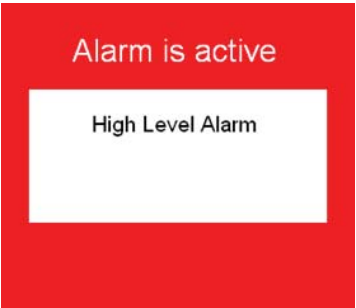
The following is displayed at the end of the transfer.



ALARM DISPLAYS

When an alarm condition is detected, EZ Connect will notify the operator and describe the alarm using a pop-up display as shown below. The display is removed when the alarm condition is no longer active.

Liquid Level is High. Make sure pump(s) are running.



Check C-Level and C-Level wire connections



Check Redundant High. Make sure pump(s) are running.



TROUBLESHOOTING

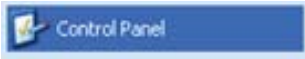
Problem: EZ Connect does not connect with the EZ Series® In-Site® CL panel

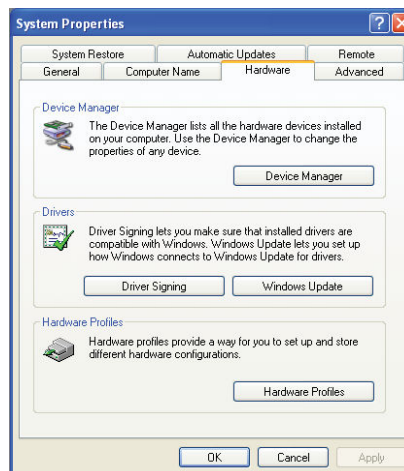
Corrective Action: Try the steps below, in the order shown. If a step does not establish a connection, move onto the next step until the problem is corrected.

1. Verify the EZ Series In-Site CL panel has power turned on and is operating; if not, turn on power to the unit. Try the connection again.
2. If power is on and EZ Connect is still not communicating; check the interface cable and insure each end is connected properly.
3. If still not communicating, check the USB end of the cable and look for flashing LEDs. If the LEDs do not flash, perform the following steps:
 - a. Disconnect the USB end of the cable from the PC.
 - b. Close the application.
 - c. Re-insert the USB end of the cable into a USB slot on the PC.Wait for the USB device to be recognized. If the device (cable) is not recognized, proceed to step 4.
4. If still not communicating, try the connection with a different interface cable, if available.
5. If still not communicating, try an alternate USB port if available.
6. If still not communicating, try re-booting the PC.
7. Check the RCV LED on the EZ Series In-Site CL circuit board. Contact the panel supplier if the RCV LED is flashing but the XMT LED is not flashing, there maybe a problem with the panel.
8. Contact the supplier and/or have unit serviced.

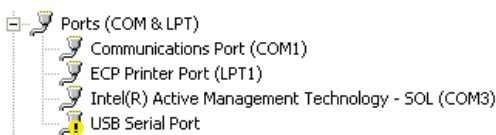
Problem: Windows XP is giving a “driver not installed properly error”.

Corrective Action: Make sure computer is connected to an internet connection. After it is connected, follow the steps below:

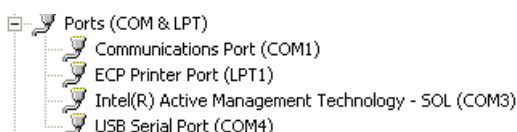
1. Click on 
2. Click on 
3. Click on 
4. Click on  in the left menu bar.
5. Click on the “Hardware” Tab then click **Device Manager**.



6. Click on the Ports Item to see if the USB serial port is installed. If it looks like the picture below (i.e. If there is a yellow exclamation on the device) continue to Step 7.



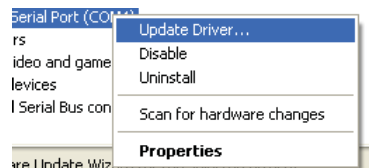
If the ports tree looks like the picture below, contact supplier for more help with this issue Note: The port number maybe different on your system, i.e. not COM4. This is just fine and should not affect EZ Connect ability to communicate.



Problem: Windows XP is giving a “driver not installed properly error”.

Corrective Action: Make sure computer is connected to an internet connection. After it is connected, follow the steps below:

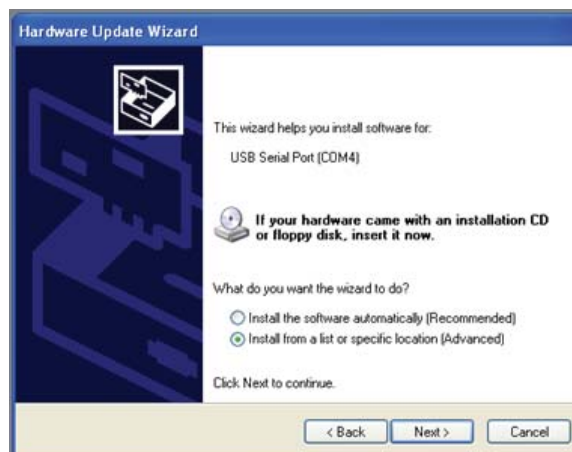
7. Right click the “USB Serial Port” and then left click on “Update Driver”.



8. Select “Yes, this time only” and click **Next**.

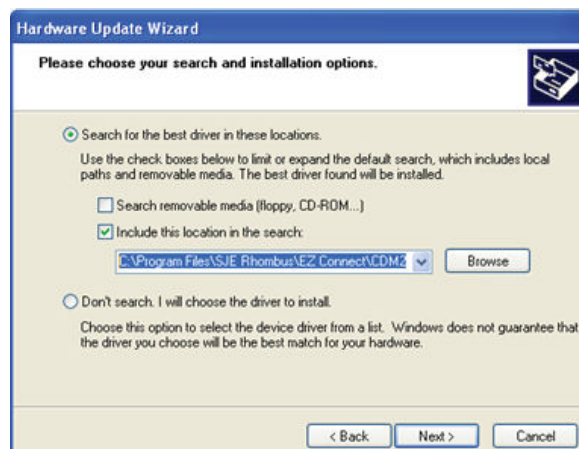


9. Select “Install from a list or specific location (Advanced)” and click **Next**.



10. Select “Search for the best driver in these locations” and then select “Include this location in the search:” and browse to the following location:
C:\Program Files\SJE Rhombus\EZ Connect\CDM20814_WHQL_Certified

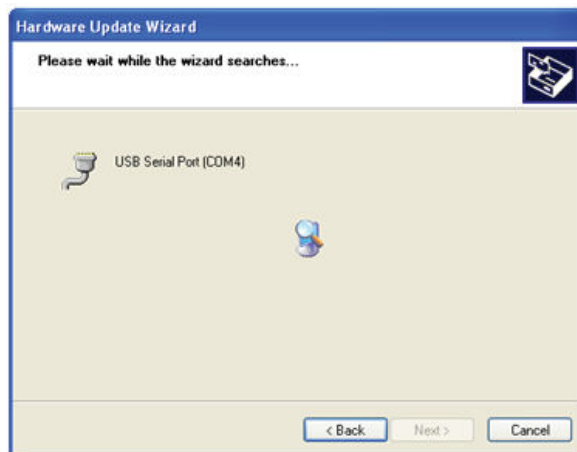
Click **Next**.



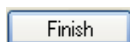
Problem: Windows XP is giving a “driver not installed properly error”.

Corrective Action: Make sure computer is connected to an internet connection. After it is connected, follow the steps below.

11. Allow Windows to install the driver.



12. After the driver install is done, click the **Finish** button



13. Try the EZ Connect software and the connection to the EZ Series In-Site CL panel.

Problem: Windows Vista is giving a “driver not installed properly error”.

Corrective Action: Make sure computer is connected to an internet connection. After it is connected, follow the steps below:

1. Click on 

2. Click on **Control Panel**

3. Click on “System and Maintenance”.  System and Maintenance
Get started with Windows
Back up your computer

4. Click on “System”.  System
View amount of RAM and processor speed

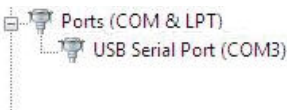
5. Click on **Device Manager** in the left menu bar, click (Must be logged into an Administrator Account).

6. Click on the **Ports (COM & LPT)** item to see if the USB Serial Port is installed. If it looks like the picture below (i.e. If there is a yellow exclamation on the device) continue to Step 7.

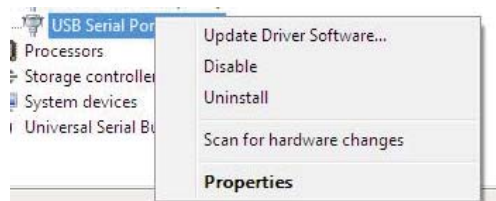


If the USB Serial Port cannot be found in the Ports (COM & LPT) looks like the picture below, contact supplier for more help dealing with this issue

Note: The port number maybe different on your system, i.e. not COM3. This is o.k. and should not affect EZ Connect ability to communicate.



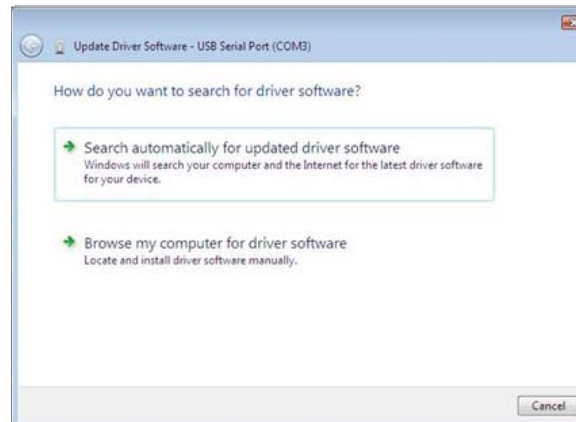
7. Right click the “USB Serial Port” and then left click on “Update Driver Software...”



Problem: Windows Vista is giving a “driver not installed properly error”.

Corrective Action: Make sure computer is connected to an internet connection. After it is connected, follow the steps below:

8. Click “Browse my computer for driver software”.



9. Select “include subfolders” and browse to the following location:

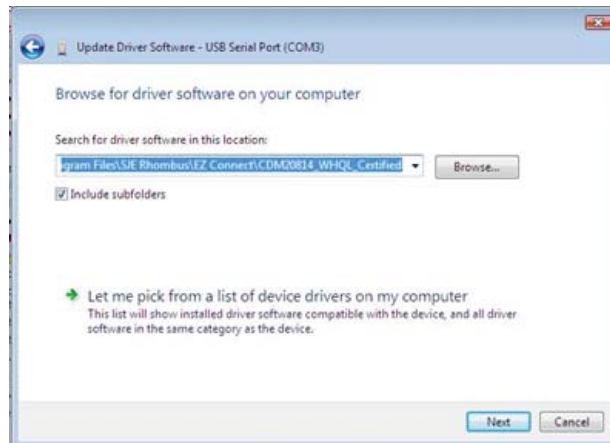
Windows Vista - 32bit

C:\Program Files\SJE Rhombus\EZ Connect\CDM20814_WHQL_Certified

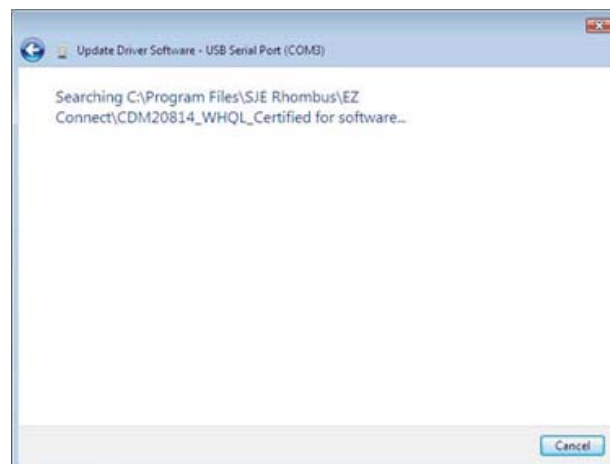
Windows Vista - 64Bit

C:\Program Files (x86)\SJE Rhombus\EZ Connect\CDM20814_WHQL_Certified

Click **Next**.



10. Allow Windows to install the driver.



11. After the driver install is done, click the **Close** button. 

12. Try the EZ Connect software and the connection to the EZ Series In-Site CL panel.

Problem: Windows 7 is giving a “driver not installed properly error”.

Corrective Action: Make sure computer is connected to an internet connection. After it is connected, follow the steps below:

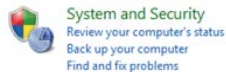
1. Click on



2. Click on

Control Panel

3. Click on “System and Security”.

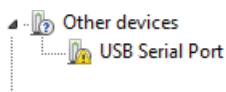


4. Click on “System”.

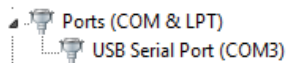


5. Click on **Device Manager** in the left menu bar. (Must be logged into an Administrator Account.)

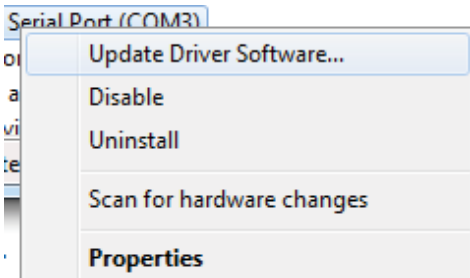
6. Click on the **Other Devices** item to see if the USB Serial Port is installed. If it looks like the picture below (i.e. If there is a yellow exclamation on the device) continue to Step 7.



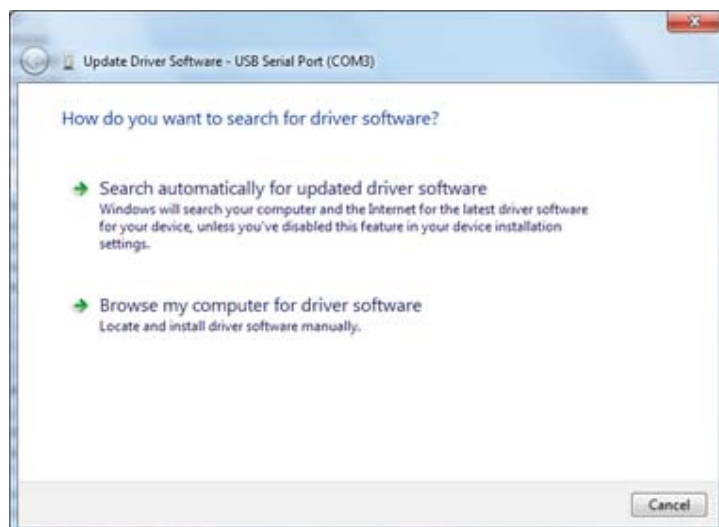
If the USB Serial Port cannot be found in the Other Devices and the Ports item looks like the picture below, Contact supplier for more help dealing with this issue **Note:** The port number maybe different on your system, i.e. not COM3. This is just fine and should not affect EZ Connect ability to communicate.



7. Right Click the “USB Serial Port” and then Left click on “Update Driver Software...”.



8. Click “Browse my computer for driver software” .



Problem: Windows 7 is giving a "driver not installed properly error".

Corrective Action: Make sure computer is connected to an internet connection. After it is connected, follow the steps below:

9. Select "include subfolders" and browse to the following location:

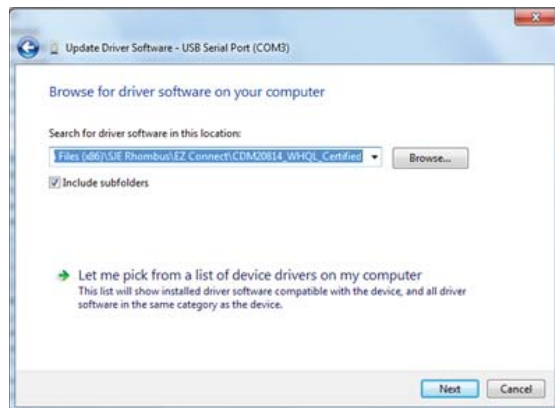
Windows 7 - 32bit

C:\Program Files\SJE Rhombus\EZ Connect\CDM20814_WHQL_Certified

Windows 7 64Bit

C:\Program Files (x86)\SJE Rhombus\EZ Connect\CDM20814_WHQL_Certified

Click **Next**.



10. Allow Windows to install the driver.

11. After the driver install is done, click the **Close** button.



12. Try the EZ Connect software and the connection to the EZ Series In-Site CL panel.



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