

# ConfigEd Lite



**Instruction  
Manual  
RG352747**



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# **ConfigEd Lite**

## Instruction Manual

for use with ConfigEd Lite Ver. 6.X

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# Safety Information



PLEASE READ THIS INFORMATION BEFORE INSTALLING THE SOFTWARE.

## **Personnel**

Qualified personnel should carry out installation, operation and maintenance of the software. A qualified person is someone who is technically competent and familiar with the installation process, operation and maintenance of this software.

Procedures in this manual may contain Warnings and Notes. A Warning gives the reader the information, which, if disregarded, could cause injury or death. A Note furnishes additional information for added emphasis or clarity.

The customer is responsible for assessing his or her ability to carry out the procedures in this manual. Make sure you understand a procedure or the precautions necessary to carry it out safely before beginning. If you are unsure of your ability to perform a function, or have questions about the procedures listed in the manual, contact SSD Drives, Inc. customer service at (704) 588-3246.

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## **WARNING!**

This software is used specifically to configure the control of potentially dangerous motor control. The user assumes all liability and risk for the performance, application, and reliability of all control systems configured with this software. It is the users responsibility to understand thoroughly and to check independently all configurations before commissioning any equipment controlled by this software. SSD Drives, Inc. accepts no liability for the application of the software.

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## Chapter 1 Introduction

### WHAT IS CONFIGED LITE

ConfigEd Lite (CE Lite) is an offline programming tool used to configure SSD Drives. CE Lite uses a graphical user interface and drawing tools that allow you to create and document your configurations in an easy-to-understand format that represents the functionality of the drive.

CE Lite can be used to configure a number of SSD Drives products, outlined in the following section.

### DRIVE COMPATIBILITY

- 584S Series Digital AC Drives, Version 4.1 or later.
- 584SV Series Digital AC Drives, All Firmware versions.
- 590 Series Digital DC Drives, Version 3.2 to 4.5.
- 590SP Series Digital DC Drives, All Firmware versions.
- 590+ Series Digital DC Drives, All Firmware versions.
- 605 Series Digital AC Drives, All Firmware versions.
- 620 Series Digital AC Drives, Version 4.0 or later
- 650V Series Digital AC Drives, All Firmware versions.
- 690+ Series Digital AC Drives, All Firmware versions

### KEY FEATURES

Using CE Lite, you can:

- Create configurations for controllers;
- Install configurations in controllers;
- Modify configurations for controllers;
- Retrieve configurations from controllers.

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#### Warning!

Installing new configurations into a drive must only be done when the drive is in a stopped and safe condition. Errors in the configuration may cause unexpected and /or dangerous consequences in the control system. It is imperative that all configurations be checked and tested by a qualified engineer **BEFORE** installing them into drives and putting them into service.

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### OFF-LINE CONFIGURATION

You do not need a drive to create your configuration using CE Lite. The entire program can be created off-line and installed into your drive. Once the configuration has been installed in to your drive, changes can be made and re-installed, while all the affected equipment is fully stopped.

## MINIMUM SYSTEM REQUIREMENTS

CE Lite is designed to be used with PC's equipped with:

- 486 Processor or better;
- 640 x 480 screen resolution, supported by Microsoft Windows
- Microsoft Windows 3.1 or later, or Microsoft Windows NT or later
- Minimum of 8 MB RAM for Windows
- Minimum of 4 MB hard drive space required.
- Windows-compatible mouse, trackball or similar pointing device.
- Standard RS232 Serial port with 9 pin male connector. (Special adapters for USB serial ports are available from SSD Drives.)
- Printer (This is recommended for printing your configurations.)

## NOISE

Ground noise may disturb the P3 serial communications link. It is created by ground loops caused when both the computer and the drive are grounded. CELite has a built-in retry routine to deal with occasional electrical noise. Continuous noise, however, will cause extremely slow communications between the computer and the drive.

In systems with large amount of electrical noise (for example, systems containing AC drives) it may be necessary to break the ground loop to achieve usable communications. The ground loop can be broken by:

- Using a battery-powered notebook computer rather than a plug-in model since most notebook computers are not grounded.
- Installing an RS232 isolator module between the computer and the P3 socket.
- Wrapping the UDP cable through ferrite rings on both ends of the cable.

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### WARNING!

Do not use any connectors, adapters, and/or cables other than those supplied by SSD Drives. Failure to use materials supplied by SSD Drives can result in severe damage to equipment and injury to personnel and will void the SSD Drives warranty.

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## Chapter 2 Handling

### UNPACKING INSTRUCTIONS

Before you install and use CE Lite, verify the completeness of your package. It should include:

- CE Lite user manual (Part Number RG352747)
- Installation CDROM and case (Part Number RD352747)
- UDP cable and adapter (Part Number CM351909)
- User License for CE Lite

If any item on this list is missing, contact the SSD Drives Customer Service at 704-588-3246.

### SPECIAL HANDLING

Proper care must be shown in the handling of the materials used for the program. The installation disk should be kept in a clean, dry environment within a relatively constant range of temperature and humidity. Keep the CELite disk far from any sources of extreme heat, magnetism and electrical fields, including permanent magnet motors, as the magnetic or electrical fields may erase the information on the disk.

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#### WARNING!

CELite is a powerful software tool specifically designed to configure drives. It is possible to create potentially dangerous drive configurations. The user assumes all liability and risk for the performance, application, reliability, and safety of drives implemented using this tool. It is the responsibility of that user to understand the configurations thoroughly and check them independently prior to installations and operation of any equipment. SSD Drives can accept no liability for the application of this software.

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## Chapter 3 Installation & Setup

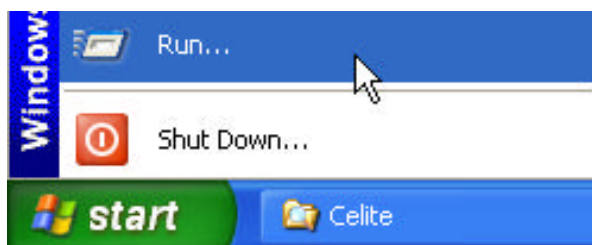
### INSTALLATION PROCEDURE

#### Autorun Install

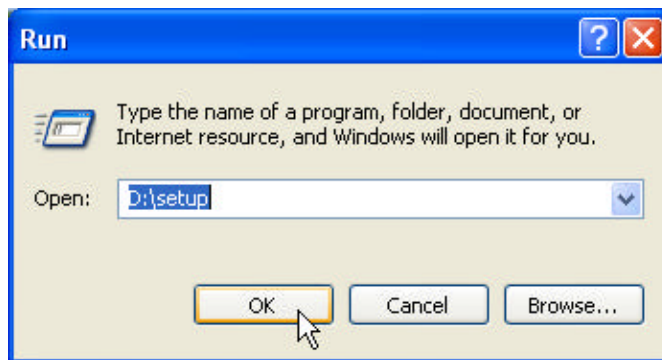
With Windows launched, insert the CE Lite CDROM disk into your CD Drive. The install program should launch automatically, if not follow the manual installation procedure.

#### Manual Install

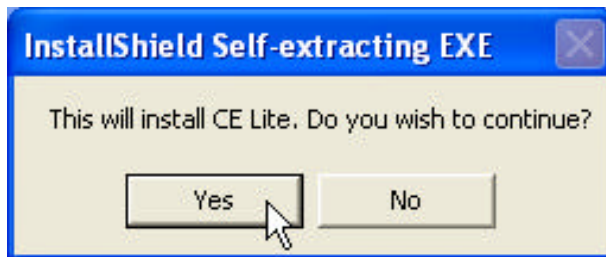
Using the cursor click on the Start button on the desktop, then click on RUN.



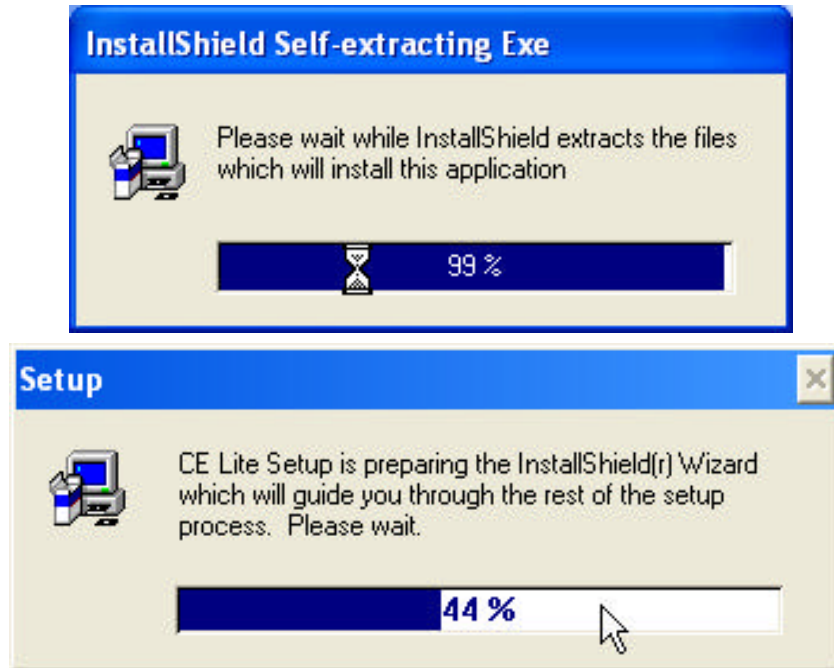
When the run dialog box appears, type in the drive letter for your CD Drive. If you do not know your CD Drive letter, click on browse to search for it. In this example the CD drive letter is D. Type `d:\setup` and then click OK.



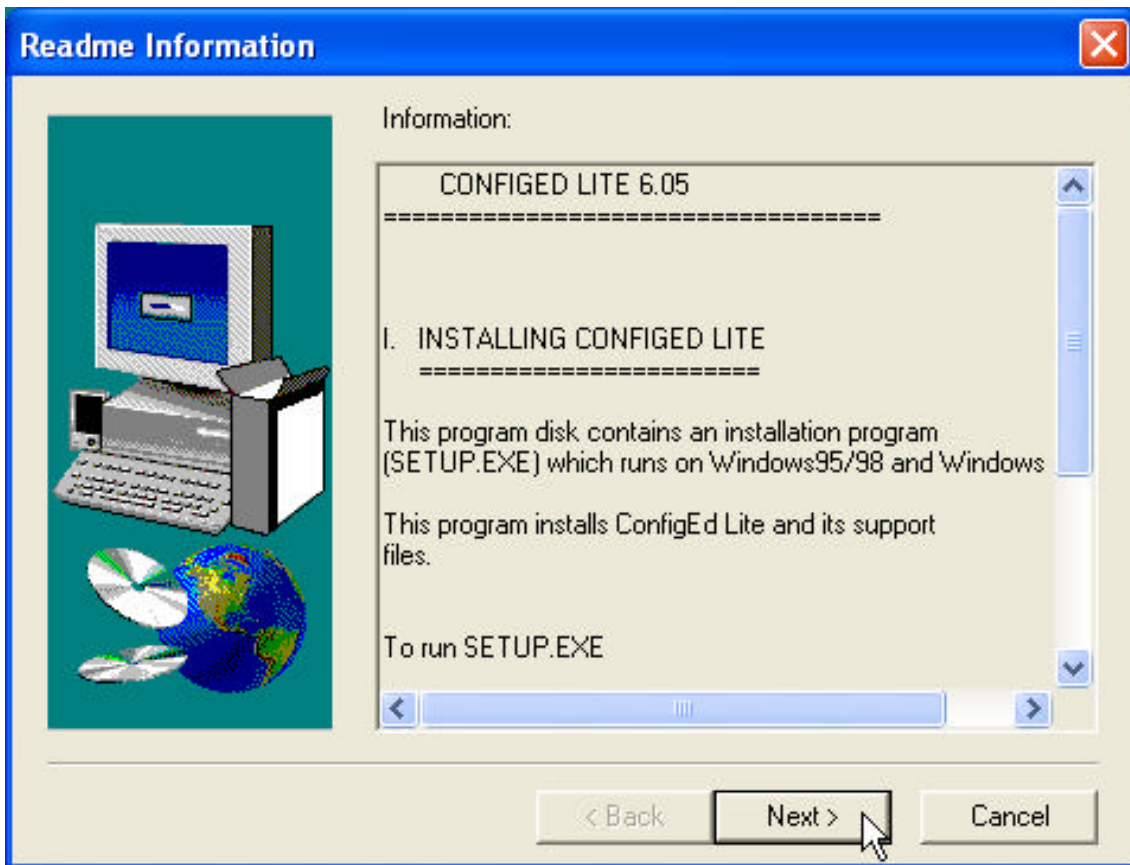
The following window will appear to show you that the CE Lite installation has begun, click on YES to continue.



The following windows are for the status of the installation.

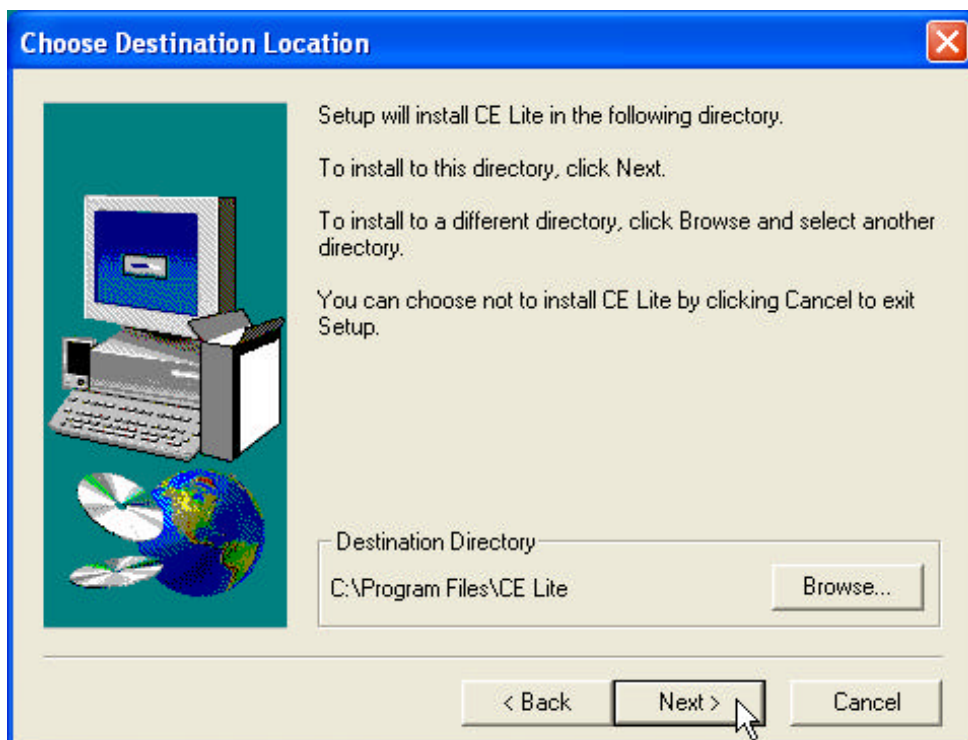


Detailed installation instructions and new features for CE Lite are contained in the `readme.txt` window. Click on the Next button to proceed with the installation.





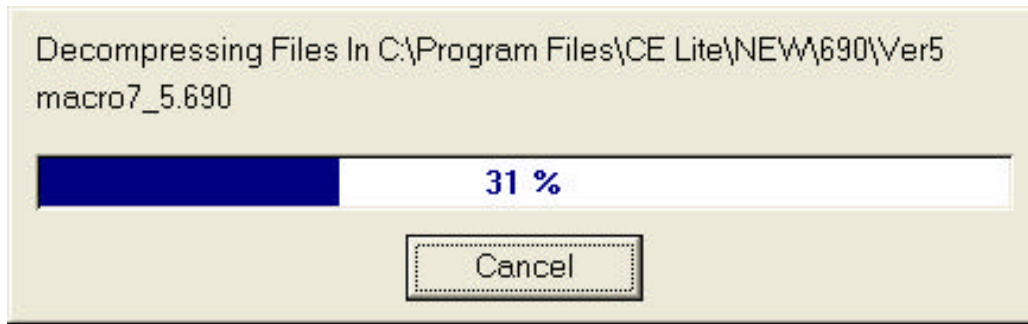
The following window is for choosing the destination directory for the program. The default location should be used for the best operation. Click on the Next button to proceed with the installation.



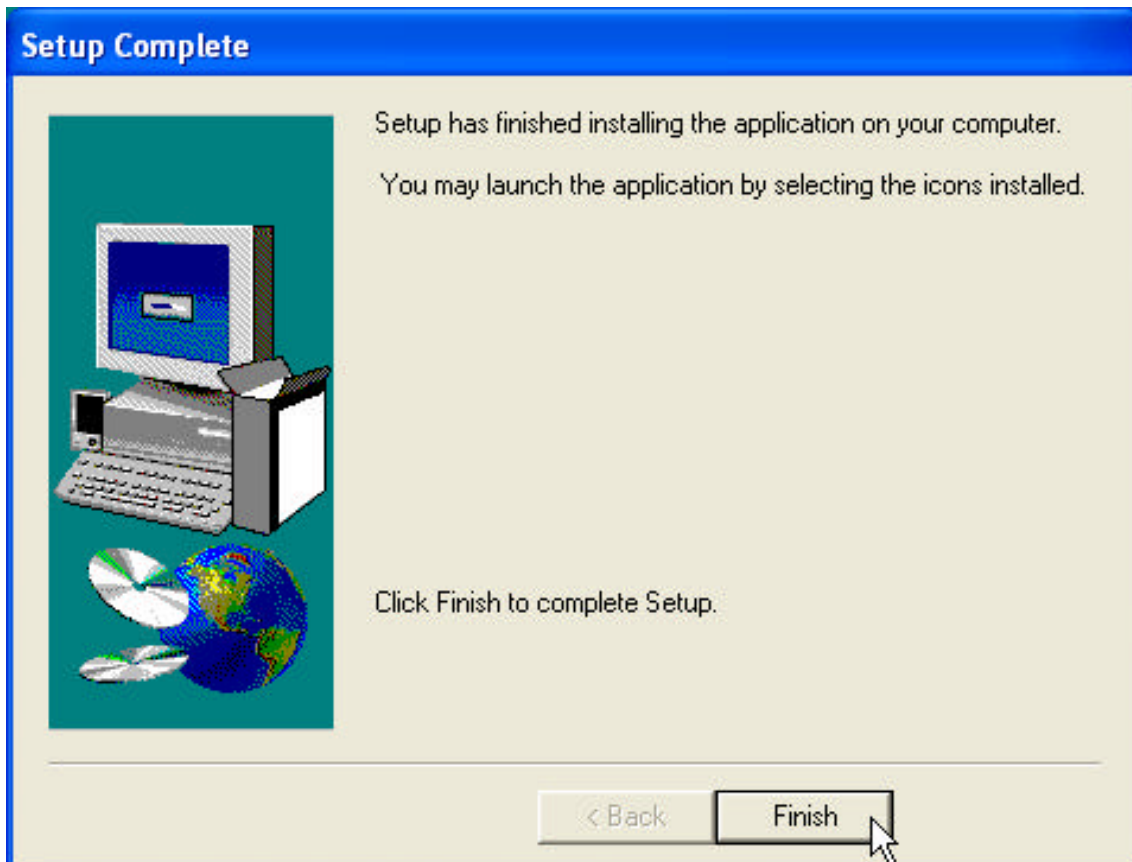
The following window is for choosing the destination folder for the icon. The default location should be used for the best operation. Click on the Next button to proceed with the installation.



The following window is showing the installation status of the program files.



The installation is now complete. Click on the **Finish** button to proceed.

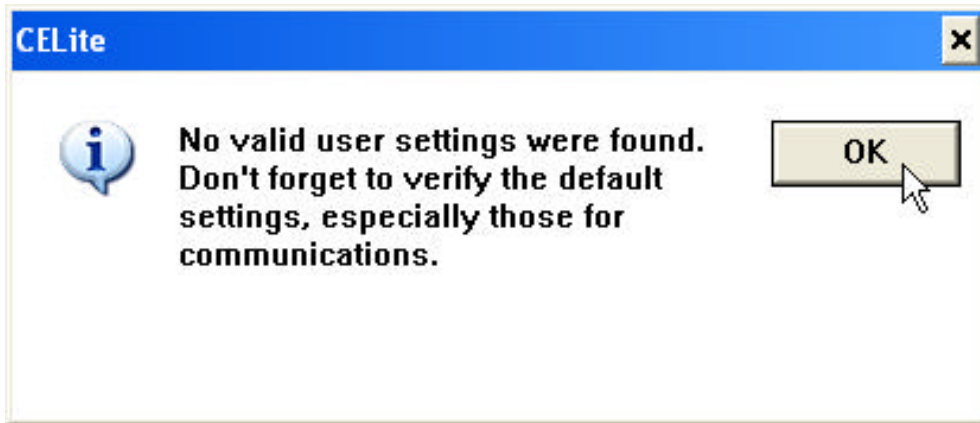


### STARTING THE PROGRAM

Start the program by either clicking on the CELite shortcut on the desktop or using the start menu.



When you first launch the program the following window will remind you to check the default settings for CE Lite to operate correctly. Click on the OK button to proceed.



### PRINTER SETUP

Before using CE Lite, the program needs to be setup for printing the configurations.

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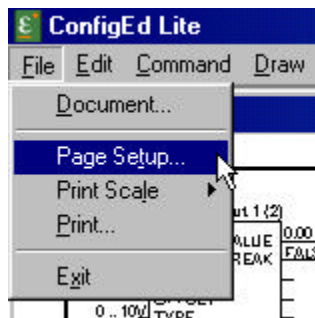
#### Caution

If the only printer configured on the computer is a network printer, the program will not work properly when not connected to the network. A local printer has to be configured on the computer and set as default, when no network connection is available.

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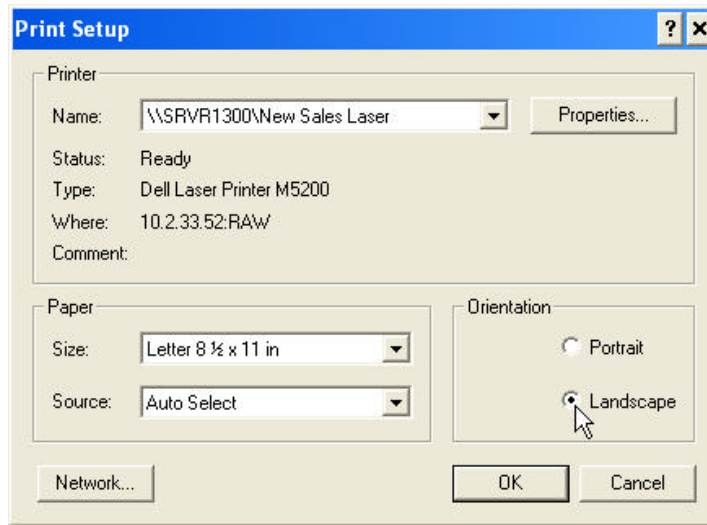
If you do not have a local printer connected to the computer, go ahead and configure an Epson FX-850 on port LPT1. Do not print a test page and also make it the default printer.

After the printer has been installed, you will need to set it up in CE Lite. Click on File, then Page Setup.



The following window will show the default printer and allow a different printer and other printing options to be selected.

Since CE Lite creates drawings in a horizontal format, make sure your page is set for Landscape mode. When you are finished click the OK button.

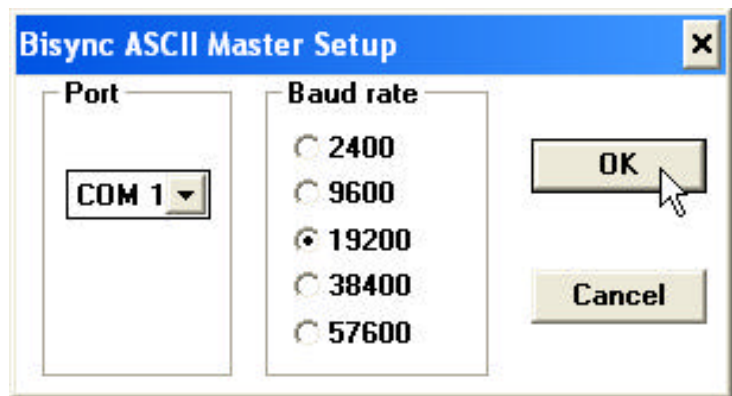
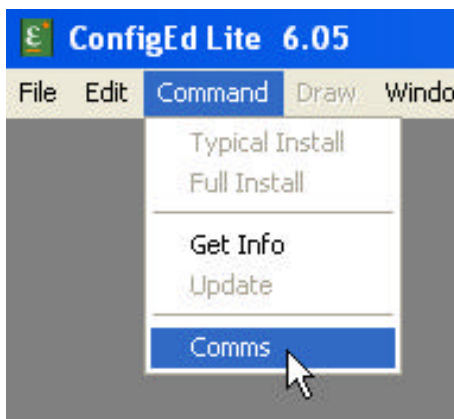


**Caution**

If you have problems printing the configurations you may need to change the printer spool settings to print directly to printer, and also make sure it is set to RAW and not EMF.

**COMMUNICATION SETUP**

To set up the communications, Click on Command then click Comms .



The Bisync ASCII Master Setup window is where you can set your Com port and baud rate. Select a serial port (COM1, COM2, COM3, COM4) and then select one of the baud rates (2400 – 57600). Be sure the serial port you select is not being used by other programs on your computer. If the mouse is connected to COM1, you would normally use COM2 for your drive connection. Click on OK when finished.

The baud rate on most of the AC drives is fixed at 19,200, the 620 drive is 9600. The older 590 drives default to 9600 but can be reset for 19,200, the same for the 590+ drives.

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**NOTE**

It is recommended that you use the default 19,200 baud. Some older computers may experience communication errors at the higher baud rates when using the standard Windows driver, if this occurs the lower baud rates should be used.

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Once the settings have been made, CE Lite will automatically save the settings in a file. In the future when you launch CE Lite these settings will be automatically loaded and used. Repeat the above steps if you need to change the settings.

## DRIVE SETUP

SSD Drives contain a serial port socket, similar to a telephone handset socket, for RS232 communication to the CELite software. This port is commonly referred to as the P3 port. Please refer to the drive manual for location of the port on the drive.

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**TIP**

On smaller horsepower AC drives, 5 hp and below, the keypad must be removed and the serial cable plugged into the keypad serial port. Larger horsepower AC drives 7.5 hp and above, have a separate P3 serial port. All DC drives have a separate P3 serial port.

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**WARNING!**

Do not use any connectors, adapters, and/or cables other than those supplied by SSD Drives. Failure to use materials supplied by SSD Drives can result in severe damage to equipment and injury to personnel, and will void the SSD Drives warranty.

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For a **590/590+ series** drive, set:

SERIAL LINKS::SYSTEM PORT::P3 SETUP::MODE to IPS (ASCII)or EIASCII or CELite

SERIAL LINKS::SYSTEM PORT::P3 SETUP::P3 BAUD RATE to 19200.

For a **584S/SV series** drive, set:

SERIAL LINKS::AUX PORT::ASCII/BINARY to ASCII

SERIAL LINKS::AUX PORT::BAUD RATE to 19200.

For a **620 series** drive, set:

SERIAL LINKS::PORT P3::P3 MODE to EIASCII

SERIAL LINKS::PORT P3::BAUD RATE to 19200.

For **650V or 605** drives, no special settings are required to communicate with ConfigEd Lite Plus. Simply plug into the appropriate serial port on the drive.

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**Note**

Not all 650V drives are fitted with a P3 serial port, refer to drive manual for more information.

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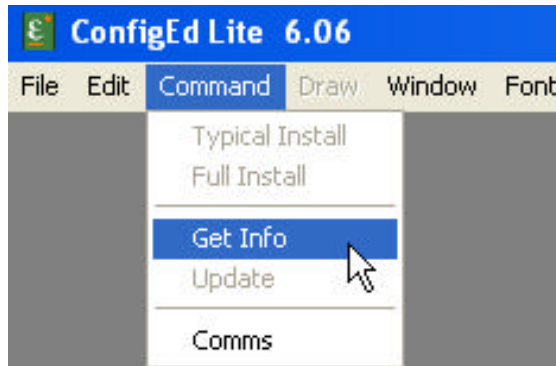
For a **690+ series** drive, set:

SETUP::COMMUNICATIONS::SYSTEM PORT (P3)::MODE to EI ASCII

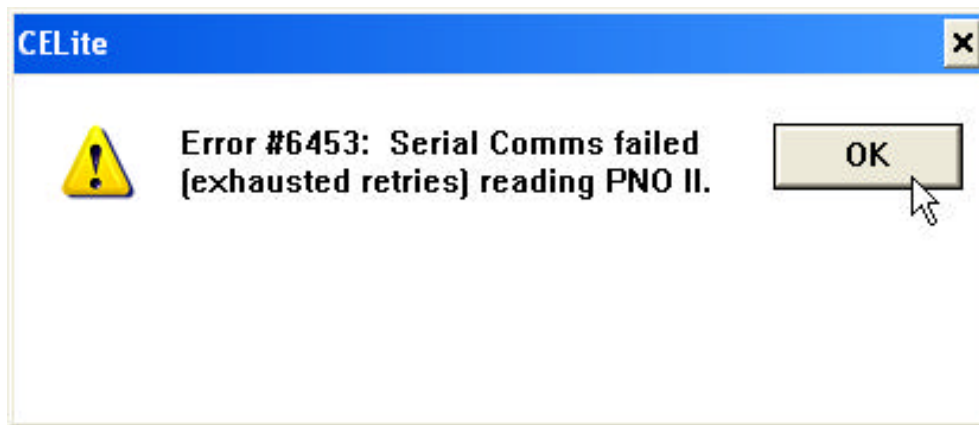
The baud rate is fixed at 19200

### TESTING COMMS

Plug the Celite comms cable into the appropriate serial port on the drive. Then click on **Command** then **Get Info**.



If you get the following error window refer to the previous setup or goto the troubleshooting section in back of book.



If no error windows appeared look at the Scratch Pad, and you should see some extra information in the scratch pad that looks like the following.

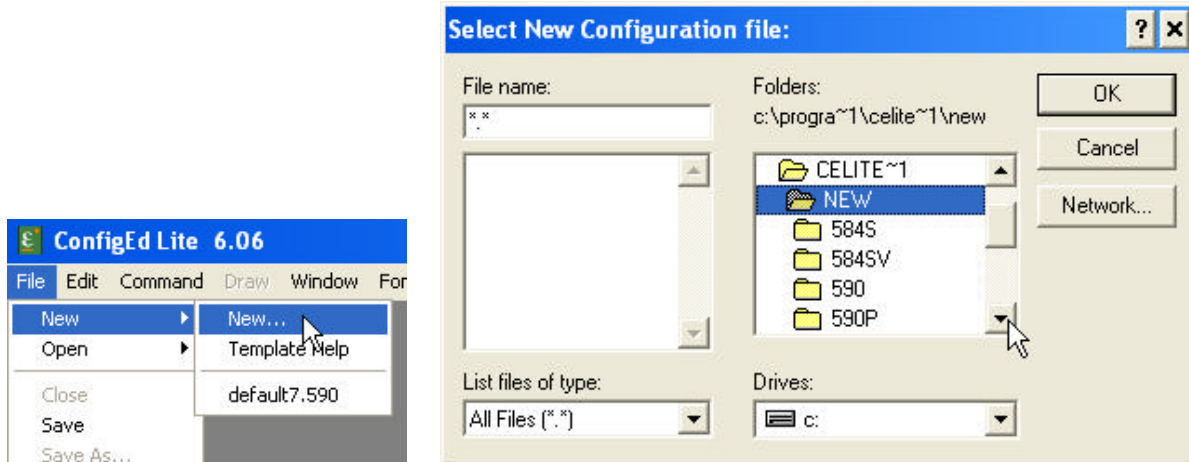


Now the communication settings have been verified and also what type of drive and the drive firmware.

## Chapter 4 Creating a Drive Configuration

### OPENING A DEFAULT CONFIGURATION

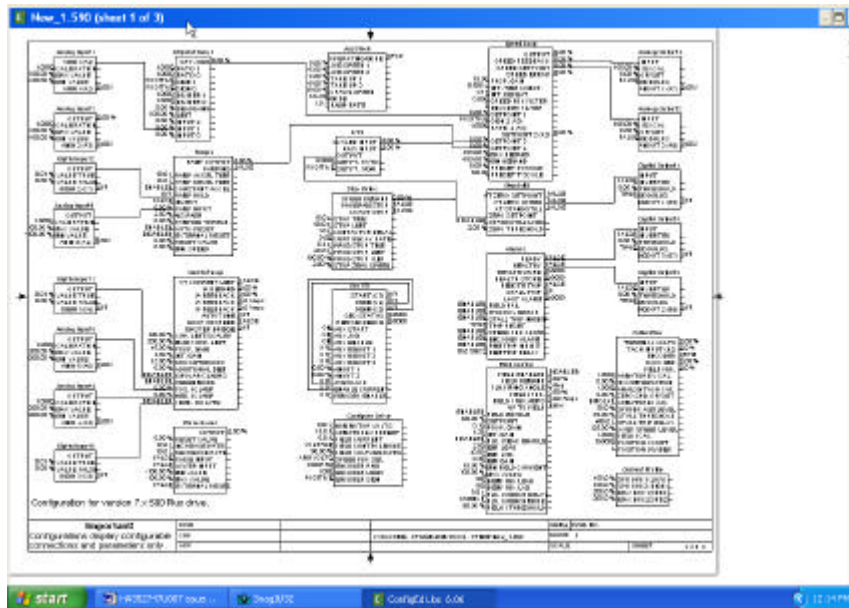
To begin, launch the program and do a Get Info on the drive to see what default configuration needs to be opened. (refer to Chapter 3). From the File menu, select New : :New. This brings up a window with choices of drive types. Select the directory that contains the type of drive you will be configuring.



In this example, Select the 590P and ver 7 directories. Select default7.590 from the directory list and click on OK.

#### NOTE

The number 7 is the firmware level of the drive and 590 is the model number. This format holds true for all the default files.



This brings up a graphical diagram of the default 590P drive configuration containing default function blocks and default connections.

## DISPLAYING THE CONFIGURATION

There are a variety of Windows™ controls available to enhance viewing of the configurations. To enlarge the CELite window to fill the monitor screen, click on the zoom box in the upper right corner of the window. Clicking again on the box will return the window to its previous size.

Notice the gray outline frame near the bottom and right side of the CELite window. If the gray outline is not visible, try scrolling down or to the right until it appears. This frame marks the limits of the “page” on which the configuration is drawn. There must be an extra margin inside the gray outline for the edges of the paper where the printer cannot print. Items extending beyond the gray outline will not print.

The CELite window can be re-sized by moving the mouse pointer to either an edge or a corner of the window until it changes into a two-pointed arrow. Then hold the left mouse key down and drag the window edge to the size wanted.

To get the configuration window to appear in the CELite window, press the `Shift` key while selecting the appropriate configuration from the `Window` menu. This is especially useful if using a small screen and the configuration desired gets “lost” on the desktop.

The view inside the window can be enlarged or reduced from the keyboard by using the number keys (either at the top of the keyboard or on the numeric keypad), the `+` or `-` keys, or by choosing a different `Scale` size in the `Draw` menu. The arrow keys and the `Page Up` and `Page Down` keys modify the view of and/or move the drawing within the CELite window. For a complete list of keyboard commands, see the following table.

### Keyboard Commands

Keystroke	Result
3	Scales to 3pt. font (0.50x drawing); homes drawing to upper left corner
4	Scales to 4pt. font (0.67x drawing); homes drawing to upper left corner
5	Scales to 5pt. font (0.83x drawing)
6	Scales to 6pt. font (1.00x drawing)
7	Scales to 7pt. font (1.17x drawing)
8	Scales to 8pt. font (1.33x drawing)
9	Scales to 9pt. font (1.50x drawing)
0	Scales to 10pt. font (1.67x drawing)
1	Scales to 11pt. font (1.83x drawing)
2	Scales to 12pt. font (2.00x drawing)
+	Increases scaling by factor of 1.33
-	Decreases scaling by factor of 1.33
Home	Sets origin of view to upper left corner
Page Up	Moves view of drawing up by 7/8 of current size
Page Down	Moves view of drawing down by 7/8 of current size
Up arrow	Nudges view of drawing up
Down arrow	Nudges view of drawing down
Left arrow	Nudges view of drawing to the left
Right arrow	Nudges view of drawing to the right
Shift Page Up	Moves view of drawing to previous sheet
Shift Page Down	Moves view of drawing to next sheet
Backspace	Deletes currently-selected item

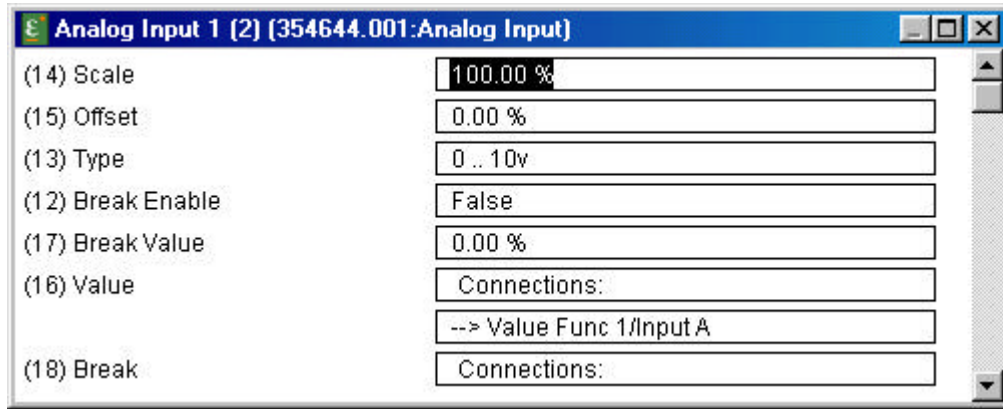
The mouse pointer can be used to select an area of the drawing to enlarge. Determine the area of the drawing desired to be enlarged, then hold down the mouse key and “draw” a box around that area. When the mouse key is released, the area selected will fill the window. A function block must be included somewhere in the area selected for this feature to work.



## CONFIGURATION PARAMETERS

### Displaying Parameters

To display the parameters of a particular function block, double-click on the desired block with the left mouse button. This brings up a window listing all the parameters for that function block and its connections.



#### NOTE

Since all connections will be made on screen in graphical mode, the fields for connections are there for informational purposes only. Connections may not be set in this window.

### Changing Parameters

To change non-numeric parameters (for example, on/off or positive/negative), double-click on the appropriate field in the parameter list window. A list of optional choices will appear to choose from.

For a numeric field (for example, 0 . 500 seconds or 0 . 50%), click once on the field to highlight the numeric figure, then type in the new value to assign to the field. When finished entering the changes, close the parameter window to update and return to the configuration drawing.

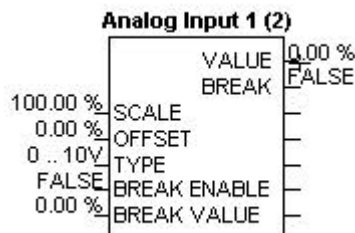
## MAKING CONNECTIONS

#### NOTE

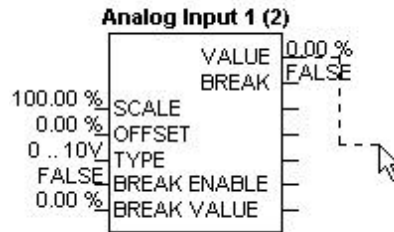
Before creating any new or changing any existing connections in the default configuration, refer to the product manual for your drive.

Connections between function blocks (or in special cases between outputs and inputs on the same function block) are made by “drawing” the connection from an output on one block to input on the other. To see how this is done, use the mouse to select and then enlarge the view of a pair of function blocks.

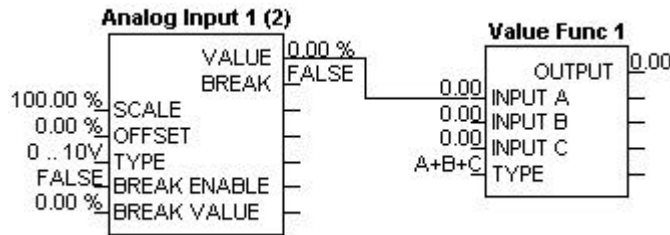
As the mouse pointer is moved close to an output on one of the blocks, it will turn into a crosshair.



With the crosshair showing, click the left mouse button once to make the initial connection with the output of the first function block. As the mouse is moved away from the output connection, the crosshair turns back into a pointer and a dashed line follows the mouse's movement.



Move in the direction of the input connection on the second function block (or, in special cases, to the same function block). When approaching the input connection, the pointer will once again turn into a crosshair. Click on the input connection and the now solid line will extend from the output connection to the input connection.



If a connection is made incorrectly, click on the connecting line. The line will become dashed. Press the `Delete` or `Backspace` key to delete the connection.

The routing of connection lines may also be adjusted to make the configurations easier to read. Click on the line desired to be moved and drag the segment to the desired location. Its connections will remain intact but the line will follow the new path.

**NOTE**

Some function blocks (for example, analog and digital inputs) support only one connection per output. If more than one connection is drawn from one of their outputs, the following error message will appear.

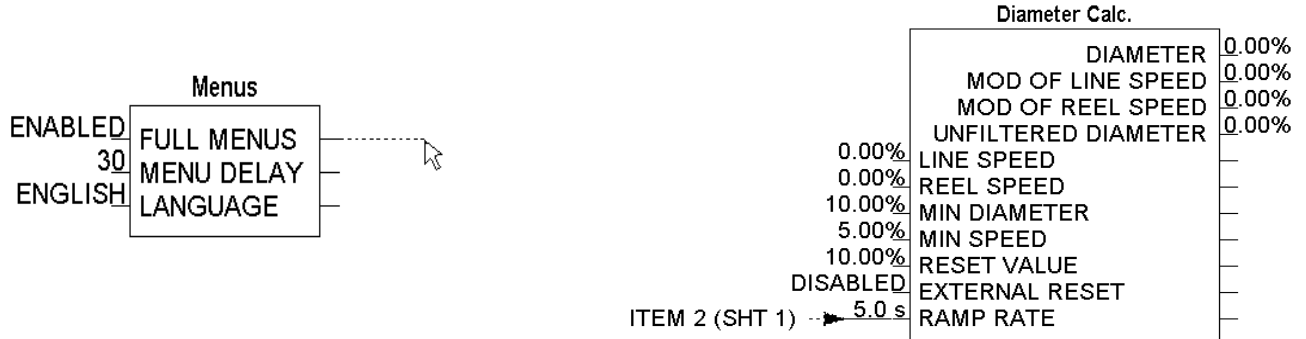


Delete a connection and proceed. This message may also appear if the number of common connections allowed in a drive configuration, currently ten, has been exceeded. Special or dedicated connections are not included in this limit.

**INTER-SHEET CONNECTIONS**

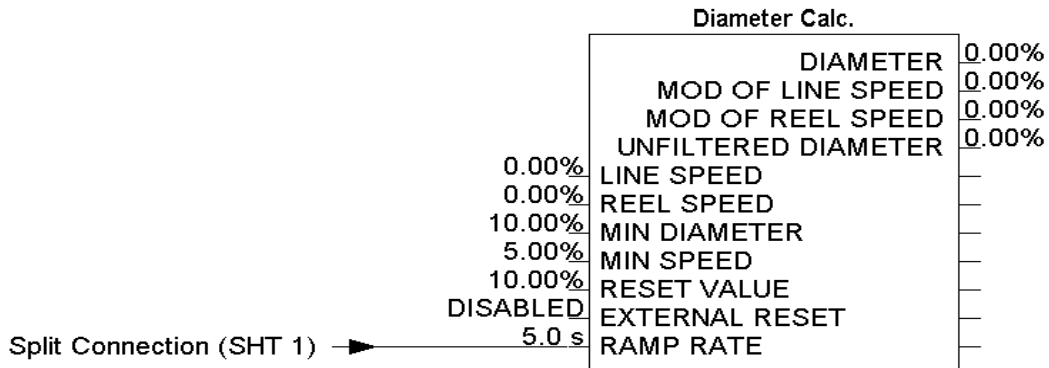
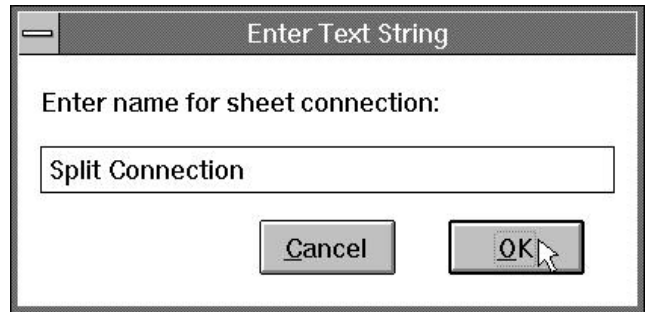
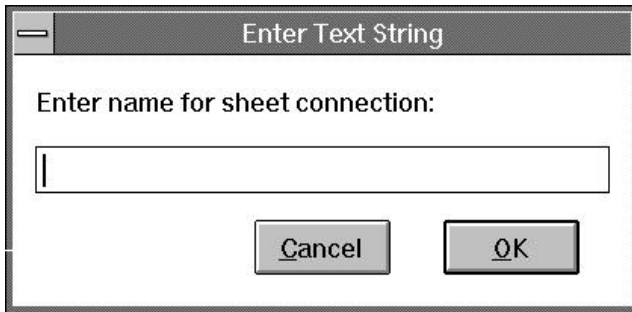
CELite allows drawing connections between function blocks on different sheets. This is an important and valuable feature since drive configurations cover more than one sheet. To make inter-sheet connections:

1. Begin a connection from an output terminal of a function block on sheet1.
2. Move the mouse pointer to the Draw menu and select Next Sheet. A dashed line for the connection will appear attached to your mouse pointer.
3. Complete the connection to an input terminal on the second function block. The dashed line will change to a solid line. It will be labeled with generic text identifying the connection and the source sheets (for example, ITEM 1 SHT 1).



On the previous sheet, the text will show the destination sheet for the connection (for example, ITEM 1 SHT 2).

4. Rename the connection by double-clicking on the arrow or the descriptive text to bring up a dialog box. Enter the preferred label name. The new information will appear on both sheets.

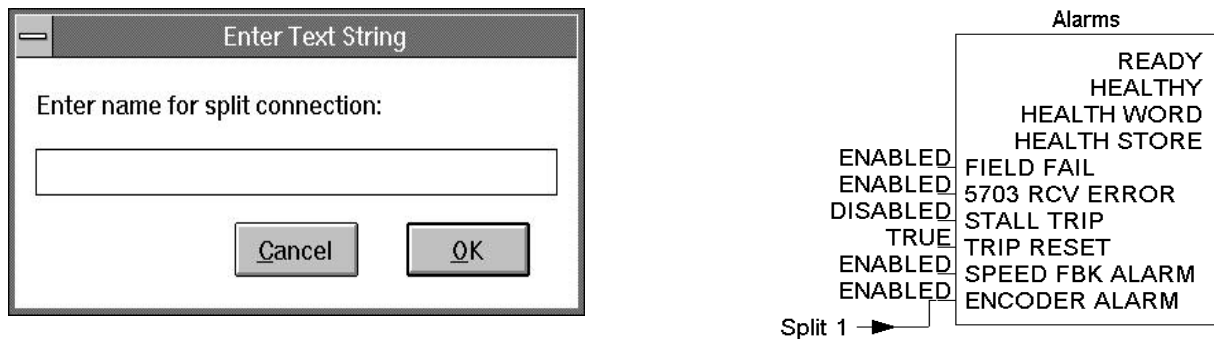


## SPLIT CONNECTIONS

Similar to inter-sheet connections, split connections can help keep complex configurations from being cluttered with an abundance of crossing lines. Split connections resemble inter-sheet connections in that they include labels identifying their source and destination. Split connections may also be made in read-only configurations, since only the on-screen appearance has been modified and the connection itself has not been changed. To draw a split connection:

1. Choose a connection between two distant function blocks.
2. Double-click on the connection with the mouse pointer or click once and press the **Enter** key. A dialog box will ask for a name for the connection.
3. Enter the name and click the **OK** button. The connection will be split and labels will be attached to each end identifying the source and destination of the connection.

To change the connection name, double-click on either the connection or the label and enter the new information in the dialog box.



## ALIGNING FUNCTION BLOCKS

Function blocks can be moved in the drawing to straighten out and neaten the appearance of the configuration, even when they are connected. Place the mouse pointer on the object to be moved, hold down the mouse button, and drag it to its new location. When satisfied with its position, release the mouse button.

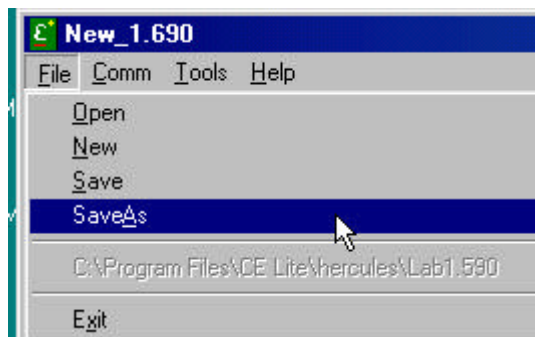
Aligning elements within the configuration drawing can be easily accomplished. To align a series of function blocks, either vertically or horizontally, click on the one in the position planned to be used as a master. Go to the **Draw** menu and select **Align**.

A check mark will appear next to **Align** to show that the alignment feature is operational. The alignment feature works on only the top or left side of the objects being aligned.

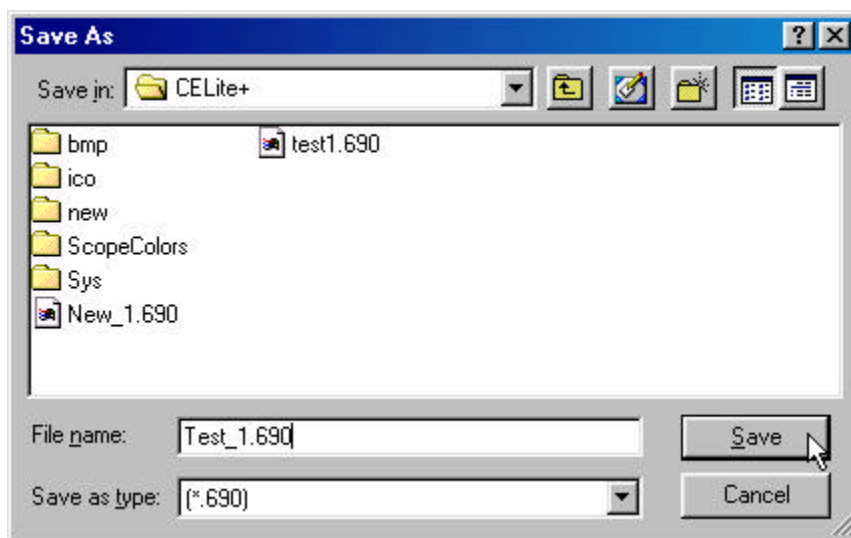
Select each element desired to be aligned with the master, drag it to the general location desired, and release the mouse button. CELite will automatically snap it into alignment with the original element. CELite “senses” whether the most appropriate alignment is in the vertical or horizontal plane and moves the element accordingly. The alignment feature can be turned off by clicking on an empty section of the drawing (so no function block is selected) and selecting **Align** again. The check mark will now be gone, showing that the alignment feature is toggled off.

## SAVING A CONFIGURATION

Once all changes and adjustments have been made to the configuration it should be saved. The configuration can only be saved in CELite, so switch back to CELite by clicking on **CELite** then **CELite**. To save the configuration to the same name, click on **File** then **Save**. If this is the first time saving the configuration (for example, **New** was selected from the **File** menu to open the default configuration), select **Save As** from the **File** menu.



This brings up a dialog box in which the name of the configuration, being saved, is typed.



The default directory for saving new configurations is the CELite directory. Additional directories should be created to organize the configurations according to particular job needs. In this example, a subdirectory called New has been created in which the test\_1.690 configuration will be saved. Consult the Windows™ manual for further instructions.

A primary reason to organize the configurations in separate directories is to keep the appropriate database with them. Copy the celite.dat file (the ConfigEd Lite database) into the same directory as the configurations at the same time the configuration is saved to the directory. This will preserve a copy of the database as it existed when the configuration was created and avoid possible incompatibilities between older and updated .dat files.

Once the correct directory has been located, type in the new name for the configuration without changing the extension and click on the OK button to save it to that directory.

## OPENING AN EXISTING CONFIGURATION

Once a configuration has been saved, CELite will display the configuration name in the File Open menu list as long as the proper directory is selected. To open an existing configuration, click on File then Open and the name of the desired configuration.

## PRINTING A CONFIGURATION

The configuration can only be printed out in the CELite program. Verify that the page and printer settings are correct, then click on File, then Print. For further instructions refer to chapter 3.

## CREATING CONFIGURATION TEMPLATES

Template files are useful for reusing configurations and creating standard graphical presentations. They are not overwritten when saving a configuration.

To create a template, open a configuration and modify it as needed. Select **Save As** in the **File** menu. Change the destination directory to `\CELite\new` and choose **OK** to close the configuration file. This file will appear in the pop down menu when selecting **New** in the **File** menu.

## Chapter 5 Installing and Updating Configurations

### INSTALLING CONFIGURATIONS

In order to install the configuration into the drive, the computer being used must be connected to that drive's P3 port. Once your configuration is completed, saved and checked, it is ready to be installed into the drive.

---

#### WARNING!

Installing new configurations into a drive must only be done when the drive is in a stopped and safe condition. Errors in the configuration may cause unexpected and/or dangerous consequences in the control system. It is imperative that all configurations be checked and tested by a qualified engineer **BEFORE** installing them into drives and putting them into service.

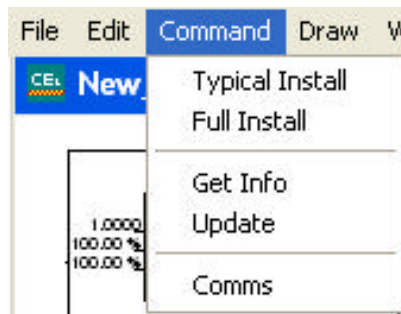
---

#### Note

All other serial ports in the controller must be disabled before communicating through the P3 port.

---

When the configuration is downloaded into the drive it replaces the parameters existing in the drive. There are two different ways to install a configuration into a drive, Full install or Typically install.



#### Full Install

A Full install will install all of the drive parameters including Motor Related and frame dependant parameters.

---

#### WARNING!

Full install cannot be used, unless the configuration has been updated first using Command then Update. If a Full Install was preformed before the configuration was updated, the drive can be damaged or it may operate irratically.

---

If it cannot be determined if the configuration has been updated, A typical install should be preformed.

#### Typical Install

A Typical Install does not install Motor or frame dependent parameters, but will install the application information.

## INSTALLING A NEW CONFIGURATION

Once your configuration is completed and checked, it is ready to be installed into the drive.

1. In order to install a configuration into a drive, the computer being used must be connected to that drive's communications port, refer to chapter 3 for help.
2. Select `Get Info` from the `Command` menu to make sure the drive is connected. The results of your query will appear in the scratch pad, refer to chapter 3 for help.
3. In the `File/Open` menu, select the desired template which you want to install in to the drive. In the lower left hand corner of the `CELite` template, the drive firmware version is listed. Make sure that this version matches the version which was obtained in chapter 3.
4. In the `Command` menu select `Typical Install`. This will install the application template but the motor or drive frame dependant parameters will not be installed. In the `CELite` template, parameters which have an "\*" asterisk next to them, are motor dependant parameters. These parameters should not be installed on the first install of the template.
5. In the `Command` menu select `Update`. This will extract the frame dependent parameters from the drive and it will update the template.
6. Now enter in the motor data parameters in to the template ( parameters with an "\*" asterisk next to them) such as motor current.
7. In the `Command` menu select `Full Install`. This will install motor and frame dependent parameters.
8. Save the configuration by going to the menu `File/Save As`.

## INSTALLING AN UPDATED CONFIGURATION

If a configuration has already been updated and it needs to be reinstalled:

1. In order to install a configuration into a drive, the computer being used must be connected to that drive's communications port, refer to chapter 3 for help.
2. Select `Get Info` from the `Command` menu to make sure the drive is connected. The results of your query will appear in the scratch pad, refer to chapter 3 for help.
3. In the `File/Open` menu, select the desired template which you want to install in to the drive. In the lower left hand corner of the `CELite` template, the drive firmware version is listed. Make sure that this version matches the version which was obtained in chapter 3.
4. In the `Command` menu select `Full Install`. This will install and save all motor and frame dependent parameters to the drive.



## UPDATING CONFIGURATIONS

To retrieve a copy of the drive's parameter settings or configuration, use the update function in `CELite`. Open the configuration file to be updated, if it is not already open. After going Online, click the `Update` button from the `CELite` Home screen, to replace the configuration parameters with those from the drive. A status box displays the progress of the update procedure.

---

### NOTE

The `Update` function will overwrite all the connections and parameter settings of the currently selected configuration. Make sure you do not accidentally overwrite an unsaved configuration.

---

When the update procedure is completed, save the configuration to preserve the updated parameters using either `Save` or `Save As` from the `File` menu.

## UPDATING A NEW CONFIGURATION

The drive configuration and parameters can be retrieved from the drive by using the `Update` function in the `Command` menu.

1. Select `Get Info` from the `Command` menu to make sure the drive is connected. The results of your query will appear in the scratch pad refer to chapter 3 for help.
2. In the `File/New` menu, select the configuration that matches the drive firmware version that was displayed in the scratchpad. In this example the file 590 firmware version is 7.x. Thus go to the folder `590P / ver7` and select a 'default7.590' template.
3. Select `Update` from the `Command` menu to update the configuration parameters with those of the drive. A status box displays the progress of the `Update` procedure.
4. When the `Update` procedure is completed, save the configuration to preserve the updated parameters using `File/Save As`.

## UPDATING AN EXISTING CONFIGURATION

The drive configuration and parameters can be retrieved from the drive by using the `Update` function in the `Command` menu.

1. Select `Get Info` from the `Command` menu to make sure the drive is connected. The results of your query will appear in the scratch pad, refer to chapter 3 for help.
2. In the `File/Open` menu, Open the configuration file you want to update.
3. Select `Update` from the `Command` menu to replace the configuration parameters with those of the drive. A status box displays the progress of the `Update` procedure.
4. When the `Update` procedure is completed, save the configuration to preserve the updated parameters using either `Save` or `Save As` from the `File` menu.

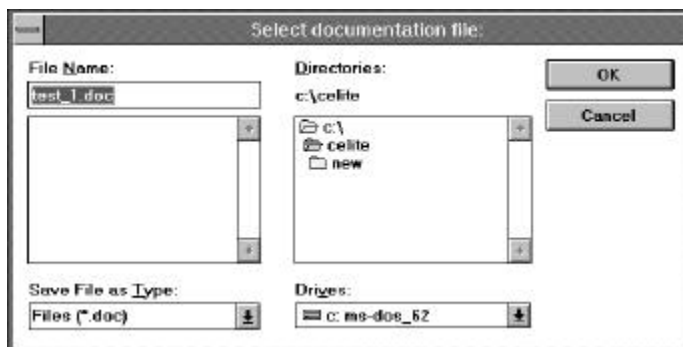
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## Chapter 6 Documenting a Configuration

### DOCUMENT YOUR CONFIGURATION

To generate a listing of all parameters and connections in a configuration, first make sure the desired configuration is opened and selected. Then select **Document** from the **File** menu.

This brings up a dialog box in which you name the documentation file and assign it to a directory.

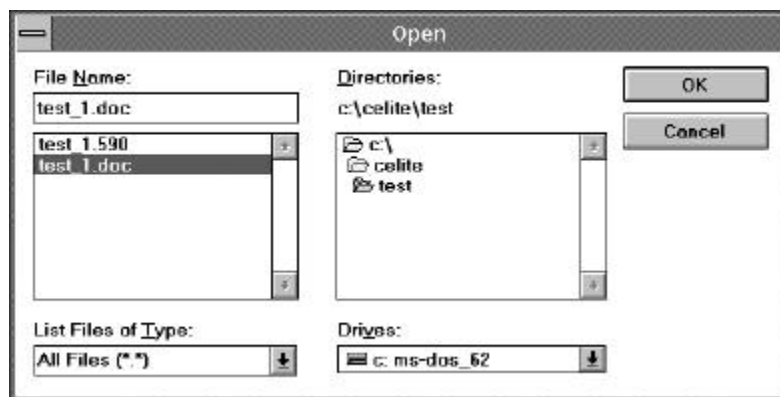


The default name is the same as the selected configuration with a `.doc` extension attached. The default directory is the same one that holds the selected configuration. Ensure that the name and directory are correct and click on the **OK** button to create the `.doc` file.

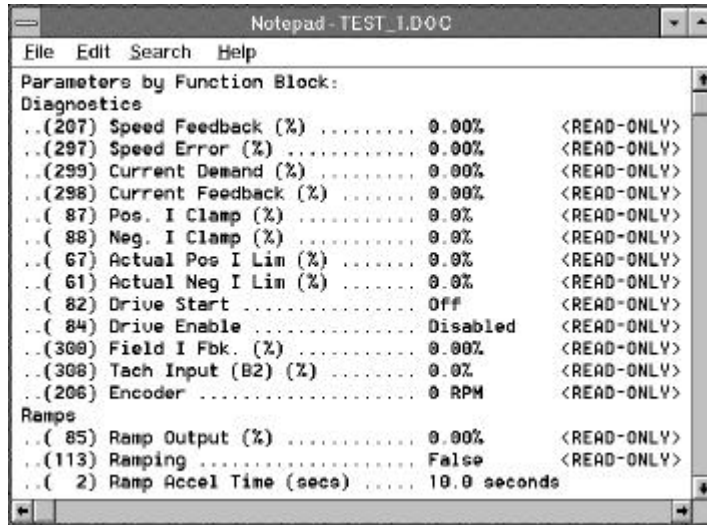
### REVIEW YOUR DOCUMENTATION

The `.doc` file containing the configuration documentation may be opened by any word processor or text editor, including the Notepad® application bundled with Windows.

Launch your word processor or text editor and then select the `.doc` file for your configuration. (Example `test_1.doc`)



A listing of the configuration parameters will appear on screen.



### PRINT YOUR DOCUMENTATION LIST

Once you have your configuration documentation open in a word processor or text editor, printing your configurations is simply a matter of sending it to a printer connected to your computer. Select **Print** from the **File** menu to send the .doc file to your printer.

## Chapter 7 Advanced Features

### FORMS

An outline or border inserted around your configuration diagram provides a uniform, professional appearance when printed. Adding important text material can help make your diagrams clearer and more easily understood. ConfigEd Lite contains special drawing tools that let you design and produce your own forms and insert descriptive text. These forms (containing both graphical and text material) are stored as `.frm` files in ConfigEd Lite's working directory.

By now, you have learned that your configuration diagram must reside within the gray border that appears on your computer screen in order to be printed. When you add a custom form to your diagram, that form must also reside within the gray border. The form will appear on your screen and your diagram must then be placed within its borders to be printed.

---

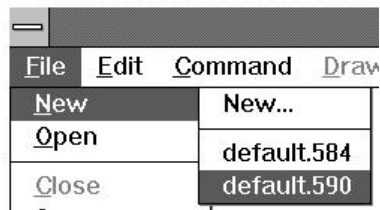
#### Note

The gray border represents the page size, not the printable area. Make sure to leave a margin inside the border to suit your printer.

---

### CREATE A FORM

To create a custom form, you must be in a configuration window. You can either open an existing configuration or create a new one. For this demonstration, select `New :: 590P :: default5.590` from the `File` menu.



A new 590P drive configuration will appear on screen. You may now use the tools in the `Draw` menu to create your form.

---

#### Note

Sheet 0 is designed only for creating forms or adding information that will print on every page of the current configuration. Do not place items on sheet 0 that you do not want reproduced on every page.

---

Go to the `Draw` menu and confirm you are on sheet 1. Forms are created on sheet 0, so select `Prev Sheet` to move to that sheet. You will be prompted with a dialog box asking if you want to edit the form. Click on `Edit`.

A new sheet will appear on screen. A gray border and title block will be visible on your page. Information can now be placed in this template that will appear on all sheets of your configuration. You should see a notation in the lower left corner that indicates the drive type/model number.

Text and objects may be entered on this sheet. Text may be added to the title block that will indicate the customer, revision, date, and other pertinent information.

A gray border should be visible, if it is not go to the `Draw Scale` menu and select a different magnification size. The gray border represents the size of the paper. If it is not in the landscape direction, go to the page setup to change from portrait to landscape.

## AUTOMATIC DATA ENTRY

The title block will accept text coded to receive data automatically from your configuration specifications. The following table gives you the codes to enter to set up automatic data entry for your configuration diagram:

- ^C (the configuration name)
- ^D (the date of the last modification to the configuration)
- ^I (the directory in which the configuration resides)
- ^N (the number of sheets in the diagram)
- ^S (the current sheet number)

---

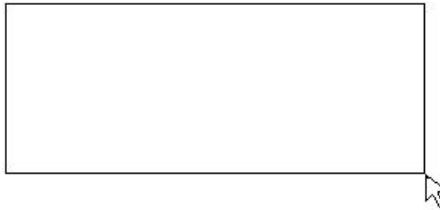
### Note

Make sure you enter the codes exactly as they are given in the Format Code Table. Case is critical. The caret (^) indicate formatting information for forms and text entered on sheet 0 and should not be used on other sheets.

---

For this exercise, we will use the blocks mentioned above. We will also create a block for your company name.

From the **Draw** menu, select the **Rectangle** tool (you can also create boxes for text by using the line tool, as we did for the form outline). Draw your blocks to the approximate size you will need. The size can be adjusted by dragging a corner of the box with the mouse pointer, so exactness is not essential at this point.



Start with a relatively large box for your company name. Since there is not a code format designed for the company name, that information will be added directly to the sheet, and thus become a permanent fixture on your configuration form sheets.

---

### Note

You can de-select a drawing or test tool by clicking anywhere on the sheet. To continue using the same tool in a different location, hold down the **CTRL** key as you click the mouse pointer. The same drawing or test tool that was last used will be repeated in the new location.

---

After the box is drawn, return to the **Draw** menu and select **Text**.

The pointer will turn into an **I**, signifying the placement point for text. Click the **I** tool where you want to begin adding text and type *Quality Systems, Inc.* (or your company name).



If the type you have entered looks too small, or you want to change the typeface or style, click on the type with the mouse pointer. You may have difficulty clicking on the type inside the box because, as was mentioned earlier, boxes created with the rectangle tool are filled. In that case, click once in the box and then go to the **Draw** menu and select **Move to Back**.

This action will shift the box to a layer behind the text block but still on the same sheet of the diagram. Click on the type block; a gray box will appear around the type.

Once selected, the type may be changed using the Font and Style menus. From the Style menu, choose 14 point bold type. Notice how the type changes.



Our box is too large for the type it surrounds. Move the mouse pointer to a corner of the box, hold the mouse key down, and re-size the box to fit the type better.

You can reposition boxes as well. Move the mouse pointer to the box, hold the mouse key down, and drag the box to the desired location. Create a series of boxes to hold the information you will need for your diagrams. Again, an enlarged view of the diagram area will help in drawing and aligning the boxes. Now you will enter the coded text that will import information from your configurations.

Decide which box will hold the configuration's name. For this exercise, we will use the top left box next to your company name. Select the Text tool and click once inside the box. Type the appropriate code, in this case ^C.

To de-select the text function, click anywhere on the rest of the sheet. To continue adding text in another location, hold the Ctrl key down as you click the I tool in the new location. Using the Ctrl key and mouse click combination instructs the computer to repeat the last drawing tool selected. Proceed to designate boxes for the other codes listed at the beginning of this section. When you are finished, your boxes should look something like this:

^C	^I	
^D	^N	^M

Placing these codes instructs ConfigEd Lite to automatically insert the proper information for your configuration diagram, either on screen or when printing. Check to make sure that your information is in the correct block; if not, review each step carefully to find where you made a mistake.

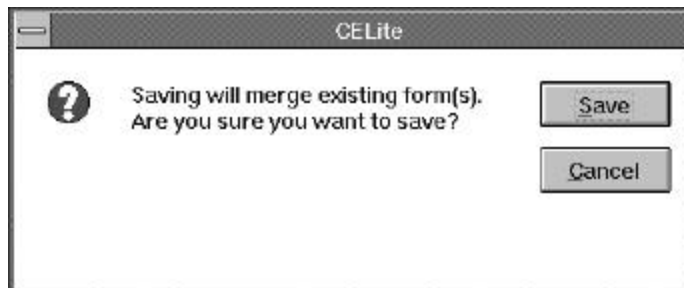
---

**Note**

Holding down the CTRL key when you click the mouse button retains the previous function and allows you to continue drawing or adding text, whichever was last done. In our example, the action will allow us to add a second line starting at the end point of the first. Continue drawing the other lines bordering your diagram area, connecting them at the corners by holding down the CTRL key while clicking on the mouse key.

---

Once you have completed the design of your form and placed the coded text in the appropriate boxes, go to the Draw menu and select Save Form. A dialog window will ask you to name the form. Enter Test and click on the OK button.




---

**Note**

If you have inserted a standard form into your configuration and then try to save it under another name, you will be asked to confirm that you want to merge the standard form into your new form.

---

A second window will tell you your form has been saved and the number of items (including the text boxes and coded type) processed.

Notice that `.frm` has been appended to the name of your form. This tells ConfigEd Lite to include it in the list of forms available for inserting into a diagram. Once you save a form, it can be added to any configuration diagram by going to the `Draw` menu, selecting `Insert Form`, and then selecting the form to insert.

You cannot have different forms for different sheets in the same multiple-sheet configuration. Only one form may be selected for each configuration. It is placed on sheet 0 and appears on every sheet of that configuration. Forms may be removed from configuration diagrams by going to the `Draw` menu, selecting `Remove Form`, and then choosing the form to be removed.

Selecting the `Show Form` menu item makes the form visible while working on the configuration and for printing. Deselecting `Show Form` can speed up screen redraws, which may be desired when modifying a diagram; however, it must be selected for the form to appear in the printout.



## Chapter 8 Troubleshooting

### MISMATCHED BAUD RATES

The baud rates in the drive must match those in CELite. Check the BAUD RATE setting on the drive under SERIAL LINKS . Clicking on Reset in the Comms menu will cause the application to reset the comms port and automatically try to find the correct baud rate required to communicate with the drive. CELite will only check COM1 and COM2 in this process. Using any other comm. Port will require the user to manually configure the setting in the Comms Menu::Settings.

### BAUD RATE SET TOO HIGH

Some older IBM-compatible computers can experience difficulty with the 19200 baud rate. For those computers, reduce the baud rate until reliable communications occur or to 9600 on the drive and do a Comms::Reset in CELite.

### WRONG COMMUNICATIONS PORT

If the comm port is other than COM1 and COM2 go to the Command Comms menu, select another communications port, and ensure your drive is connected to that port.

### DRIVE P3 MODE SET WRONG

For a **590/590+ series** drive, set:

SERIAL LINKS::SYSTEM PORT::P3 SETUP::MODE to IPS (ASCII) or EIASCII or CELite

SERIAL LINKS::SYSTEM PORT::P3 SETUP::P3 BAUD RATE to 19200.

For a **584S/SV series** drive, set:

SERIAL LINKS::AUX PORT::ASCII/BINARY to ASCII

SERIAL LINKS::AUX PORT::BAUD RATE to 19200.

For a **620 series** drive, set:

SERIAL LINKS::PORT P3::P3 MODE to EIASCII

SERIAL LINKS::PORT P3::BAUD RATE to 19200.

For **650V or 605** drives, no special settings are required to communicate with ConfigEd Lite Plus. Simply plug into the appropriate serial port on the drive.

---

#### Note

Not all 650V drives are fitted with a P3 serial port, refer to drive manual for more information.

---

For a **690+ series** drive, set:

SETUP::COMMUNICATIONS::SYSTEM PORT (P3)::MODE to EI ASCII

The baud rate is fixed at 19200

## ERROR MESSAGES

Error detection is designed into ConfigEd Lite to help prevent the execution of an inappropriate or dangerous command. ConfigEd Lite displays error messages when it discovers a problem. The messages contain an error number and a brief description. Some messages also have an error code expressed as PNO plus a two-character code identifying the type of error. In case of irreconcilable errors, the error and code numbers may help the service technician help solve the problem.

The most common error messages are as follows:

<p><b>Code</b> – Error #6453 Serial Comms failed.</p> <p><b>Description</b> – Serial comms has not responded as expected. PNO II, indicates that it failed to read ID (II).</p>	<p><b>Action</b> –</p> <ul style="list-style-type: none"> <li>• Ensure drive has power and the cable is plugged into the correct correct serial port.</li> <li>• Set port in ASCII mode and ensure that baud rate of drive matches that of ConfigEdLite. If not, communications will resume only if the baud rate setting in the drive MMI is reset to match ConfigEdLite.</li> <li>• Group ID and Unit ID must be set to “0”</li> <li>• CONFIGURE I/O parameter must be “Disabled”</li> </ul>
<p><b>Code</b> –Error #6449 Serial Comms failed.</p> <p><b>Description</b> – Marginal or interrupted communications</p>	<p><b>Action</b> –</p> <ul style="list-style-type: none"> <li>• Reduce baud rate settings on drive and ConfigEdLite (This is not possible for 584S &amp; 605 drives)</li> <li>• Reset the port by cycling power to the drive</li> <li>• Cable damaged? Cable should not be longer than 10 feet.</li> </ul>
<p><b>Code</b> –Error #6405 Could not access configuration.</p> <p><b>Description</b> – Could not find the “.dat” file in the directory.</p>	<p><b>Action</b> –</p> <ul style="list-style-type: none"> <li>• Make sure the correct celite.dat file is in the same directory as your application .</li> </ul>
<p><b>Code</b> –Error #6463 Cannot install configuration while drive is running.</p> <p><b>Description</b> – The drive must be stopped and disabled when you want to install the configuration into the drive.</p>	<p><b>Action</b> –</p> <ul style="list-style-type: none"> <li>• Remove Run/Start signal.</li> </ul>

### Caution

The above feature prevents dangerous consequences caused by modifying the parameters while the drive is running.

---

### Note

If CELite aborts during installation, it is possible that an “anti-virus” program is running on the computer. Close the program and try again.

---

**Code** – Error #6459 Could not open Serial Comms Library.

**Description** – The Comms port on the computer is not active, turned off, or used by another device.

**Action** –

- Check comms port allocation and settings

**Code** – Error #6461 Wrong Version Firmware.

**Description** – The firmware version of the drive does not match the CELite configuration.

**Action** –

- Select the correct CELite configuration to match the drive firmware version.

**Code** – Error #6597 Could not set Tag 2201-1

**Description** – Could not set tag number 201 to the regen mode.

**Action** –

- Select the correct mode of operation for the 590+ power stack configuration. See “Current Loop” function block.
- Select the correct “P Code” for the 590+ drive. Refer to the Drive manual for instructions.

**Code** – Error(no number) – All usable links are in use, you must delete a connection first.

**Description** – There are a limited amount of connections in the drive configurations.

**Action** –

- Select one of the existing connections and delete, then add the connection desired.

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## Chapter 9 Reference

### DETAILING CONFIGURATIONS

#### Drawing

The ability to create configurations in a graphical display on screen is a key feature of ConfigEd Lite. The Draw menu contains a variety of tools to assist you in your work. It provides functions to move among multiple sheets of drawings, create custom outline forms, and annotate drawings with important information.

Additional commands in the Draw menu include `Oval`, `Color`, `Fill`, `Pattern`, and `Width`. These commands are used to modify objects drawn in or text added to the configuration. The color, fill, or width of the lines of function blocks and connecting lines cannot be modified. Only objects or lines you have drawn in a configuration can be modified with these tools.

To apply `Color`, `Fill`, `Pattern`, or `Width` commands to an existing object, select the object with the mouse pointer. As an example, we will use a box created in a blank configuration using the `Rectangle` tool. After creating the box, select it with the mouse pointer and then go to the draw menu and select `Pattern`.

A pop up list of pattern options will appear on screen; `Hollow` is the default pattern. Select a different pattern (for example, `Solid`) with the mouse and release the mouse key. The box will automatically be filled on screen. For illustration purposes, `Black` has been selected as the `Fill` color; the default fill is `White`.

The same sequence of steps can be used to modify the color of text or graphics, the width of lines (either alone or as part of a drawn object), and the fill of a drawn object.

---

#### Note

Pressing the `Ctrl` key after use of any drawing tool causes ConfigEd Lite to “remember” the last drawing action taken (whether drawing lines, arrows, or shapes, or adding text) and allows you to immediately repeat that action. This saves the time and effort of repeatedly selecting the tool from the Draw menu.

---

#### Drawing Tools

##### Color

The `Color` command is used to specify the outline color for rectangles and ovals and the display color for lines, arrows, and text you have added to your drawing.

To apply color to an object or text, either select a color and then a line or object to draw or text to place, or select an already-placed object or block of text and then change the color. The default color setting is `Black`.

##### Fill

The `Fill` command is used to color the contents of an object and highlight its appearance on a color display. To change the color for new objects, select `Fill` and choose the new color. All new objects will be drawn with that color.

To change the fill color of an existing object, select the object. Then select `Fill` and choose the new color. The default color is `White`.

##### Pattern

The `Pattern` command is used to set the fill pattern of an object. To change the fill pattern for new objects, select `Pattern` and choose the new style. All new objects will be drawn with that fill pattern.

To change the fill pattern of an existing object, select the object. Then select `Pattern` and choose the new fill pattern. The default `Pattern` setting is `Hollow`.

### Width

The `Width` command is used to specify the thickness of lines created with the `Arrow`, `Line`, `Oval`, and `Rectangle` commands. One point is equal to  $1/72$  of an inch. Line width ranges from 0.5 points to 16.0 points; the default line width is 0.5 points.

To get an idea of the differences in line widths, select the oval drawn previously and change the line using the `Width` tool. Notice the difference in the oval when the line is changed. The `Width` setting is also used for all newly-drawn objects.

### Arrow

The `Arrow` command is a variant of the `Line` command. It is used to add lines with arrows to your drawings. Combined with text and other tools, arrows can be an effective tool to bring attention to a particular item.

### Line

The `Line` command allows you to draw straight lines anywhere in your drawing. It can be used to create form outlines and text boxes, and to add highlighting to drawings. When you select `Line` from the `Draw` menu, your mouse pointer turns into an X, showing it is now a drawing tool. Place the X where you want to begin your line, press and hold the mouse key down, and drag a line to the desired end point.

Release the mouse key when your line is finished. To draw a series of connected lines, hold the `Ctrl` key down when you click the mouse the second time. A new line, starting where the first one finished, can then be dragged with the mouse.

### Oval

The `Oval` command allows you to add an oval or circle to your drawing. When you create an oval on screen, the borders formed during the drawing process are rectangular. Only after you release the mouse key does the oval appear. When you select the oval to move it or modify its shape, it is highlighted by a rectangular gray box outlining its perimeter.

### Rectangle

The `Rectangle` command allows you to add a rectangle to your drawing.

### Text

The `Text` command allows you to add text to your drawing. It is covered in depth in Chapter 6.

## Display Options

The `Scale` and `Black & White` display options are used to change the view of a configuration on your computer screen.

### Scale

The `Scale` command is used to select the magnification ratio of your configuration display. The `Scale` menu presents a list of preset ratios as well as a `Variable` dialog function. The `Variable` dialog asks for a magnification setting within the range of .34x to 10x. The default `Variable` setting is the current viewing scale.

Keyboard commands may also be used to change scaling. See page 4-2 for a list of keyboard scaling commands.

### Black & White

The `Black & White` command is used to switch the display of your configuration from color to black and white mode. This is useful when taking a drawing created on a color monitor and viewing it on a black and white monitor. It is also used when sending a color or configuration to a black and white printer. With this command toggled on, it prevents printing the drawing in gray scale, which may result in poor printout quality.

## Annotating Drawings

Objects and/or text may be added to your drawings in the same manner as is used for creating forms. The only difference is that such annotations are usually made on individual configuration sheets rather than on sheet 0.

Review the sections on using the drawing tools to add text or graphics to your configuration drawings.

## Scratch Pad

The scratch pad provides a written record of your actions regarding the configurations, including loading, saving, and deleting drawings. That record is kept in the `celite.tex` file, which is created automatically when you first launch ConfigEd Lite. Every time the program is run, the information written to the scratch pad is added to the end of the `celite.tex` file. It is located in the working directory for the ConfigEd Lite icon, typically the `celite` directory. The `celite.tex` file may be edited using any text or word processing program that reads text files.

The scratch pad window appears on screen whenever ConfigEd Lite is launched. It responds to the same sizing commands and actions as any other Windows™ element.

The launch time for ConfigEd Lite is recorded automatically in the scratch pad when the program opens. You can manually insert the current time at any point by selecting `Paste Time` from the `Edit` menu.

You can select the typeface and size for the information in the scratch pad by first making sure it is the active window. Next, go to the `Font` and `Style` menus and select the typeface and size you prefer. The type in the scratch pad will change to the style you specified. The style selected for the scratch pad will also become the default for text you add to your configuration drawings, so choose it with care. A sans serif typeface, such as Helvetica, will be the clearest and easiest to read in your drawings and is recommended for that reason. Type that is automatically included with function blocks retains its default font regardless of the style chosen for the scratch pad.

To print out your ConfigEd Lite Scratch Pad records:

- 1.Launch a text editor or word processing program, such as the Windows™ Notepad®;
- 2.Select `Open` from the `File` menu;
- 3.Locate and open the `celite` directory;
- 4.Search for files with `.tex` in the file name;
- 5.Select `celite.tex` from the menu of files;
- 6.Select `Print` from the `File` menu once the file is opened.

You can also use the ConfigEd Lite Scratch Pad as a simple text editor to make notes on the actions recorded there. To add text manually, make sure that the scratch pad window is active and that you can see a blinking cursor. Then add whatever notations you wish by typing them in from the keyboard.

It is a good idea to edit your `celite.tex` file periodically, as it can grow quite large. Before deleting portions of the file or the entire file, make a copy (either printed or saved to a floppy disk) to retain for your records. This record is invaluable in tracking installations, modifications, and other actions regarding ConfigEd Lite.

You can either select portions of the file to delete while in your text editor or word processor or delete the entire file from your hard drive. If you delete the entire file, ConfigEd Lite will create a new `celite.tex` file the next time it is launched.

To clear the text displayed in the scratch pad window, make sure it is the active window and then choose `Save` from the `File` menu. This saves the text to disk and clears the on-screen display of the scratch pad information.

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## Chapter 10 Appendix

### MENUS

#### File



The File menu provides access to the New, Open, Close, Save, Save As, Document, Page Setup, Print Scale, Print, and Exit functions.

#### Edit



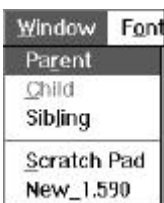
The Edit menu provides access to Cut, Copy, Paste, Clear, Select All, and Paste Time functions to be used in reference to the scratch pad.

#### Command



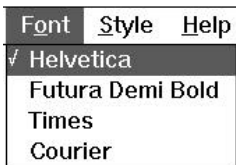
The Command menu provides access to the Install, Get Info, Update, and Comms functions.

#### Window



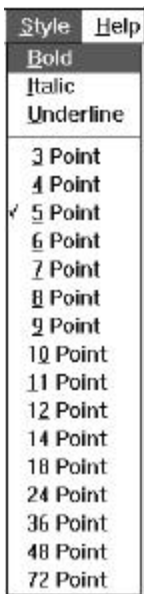
The Window menu provides access to the Parent, Child, Sibling, functions (a hierarchical order of window organization) as well as the Scratch Pad and any open configurations (in this example, New\_1.590).

### Font



The **Font** menu provides access to the fonts available on your system for use in your configuration diagrams and in the scratch pad.

### Style



The **Style** menu provides access to the font type, style and size functions.

### Help



The **Help** menu provides access to the **About ConfigEd Lite**, information box and **Template Help** functions.



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