

GETTING STARTED

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Introduction

Purpose of this Manual

Thank you for purchasing the AutomationDirect CLICK PLC family of products. This hardware user manual provides information that will help you install, set up, program, troubleshoot, and maintain your CLICK PLC system. The manual includes information that is critical to the safety of the personnel who will install and use the PLC, and to the machinery, processes, and equipment controlled by the PLC.

The manual also includes important information about power and signal wiring, mounting of the PLC, and configuring the PLC system.

About Getting Started

If you are familiar with PLCs in general, then following the simple steps in this first chapter may be all you require to start being productive using a CLICK PLC system. After you have completed the steps, your CLICK PLC will be running the ladder logic project that you programmed. If you are new to the world of PLCs, be sure to read through all of the chapters in this hardware user manual.

Supplemental Manuals and Other Help

The CLICK Programming Software, C0-PGMSW, can be downloaded free from the AutomationDirect web site (link shown below under Technical Support). Both this Hardware User Manual, *C0-USER-M*, and the *Software Installation Guide* are free as a download. The CLICK Programming Software includes searchable online help topics covering all aspects of the software and instruction set.

Technical Support

We strive to make our manuals the best in the industry. We rely on your feedback to let us know if we are reaching our goal. If you cannot find the solution to your particular application, or, if for any reason you need technical assistance, please call us at:

770-844-4200

Our technical support group will work with you to answer your questions. They are available Monday through Friday from 9:00 A.M. to 6:00 P.M. Eastern Time. We also encourage you to visit our web site where you can find technical and non-technical information about our products and our company.

http://www.automationdirect.com

Conventions Used



WARNING: When you see the exclamation point icon in the left-hand margin, the paragraph to its immediate right will be a warning. This information could prevent injury, loss of property, or even death in extreme cases. Any warning in this manual should be regarded as critical information that should be read in its entirety. The word WARNING: in boldface will mark the beginning of the text.



NOTE: When you see the notepad icon in the left-hand margin, the paragraph to its immediate right will be a special note. Notes represent information that may make your work quicker or more efficient. The word **NOTE:** in boldface will mark the beginning of the text.



TIP: Whenever the "light bulb" is shown in the left-hand margin, the paragraph to its immediate right will provide a special tip. The word TIP: in boldface will mark the beginning of the text.

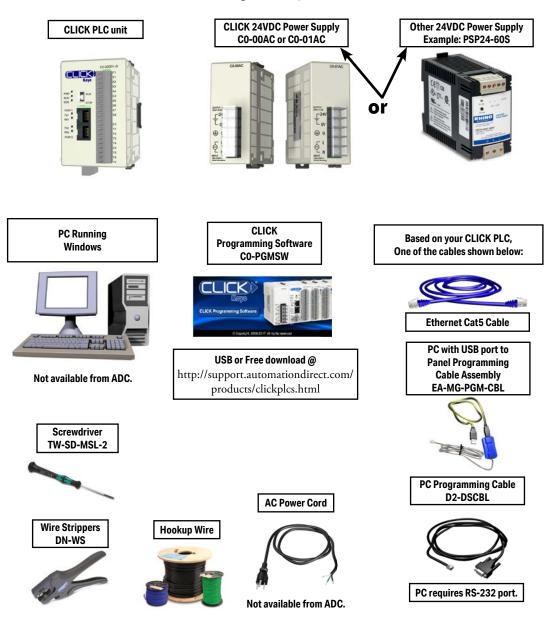
Key Topics for Each Chapter

The beginning of each chapter will list the key topics that can be found in that chapter.

Getting Started!	CHAPTER 1
In This Chapter	
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Before you begin...

It is recommended that the following items be available to make this short step-by-step introduction to the CLICK PLC go smoothly.



Step 1: Install Programming Software

- 1. If you have the programming software on USB, insert the USB stick into a USB slot and follow the instructions. Otherwise, download the free CLICK Programming Software, C0-PGMSW, from the following Automationdirect.com web site: http://support.automationdirect.com/products/clickplcs.html
- 2. Unzip the downloaded ZIP file.
- 3. Double click Install.exe. The CLICK PLC Programming Software splash screen should appear after a short time.
- 4. Click on the splash screen's Install Software button and follow the dialog boxes.
- 5. If you intend to communicate via USB ports on your personal computer using cable EA-MG-PGM-CBL, click on the Install USB Drive button. Follow the dialog boxes. You can install the USB driver either before or after the software is installed.

Silent Install

The silent install feature allows the software to be installed from the Windows command line or deployment management software without further user interaction.

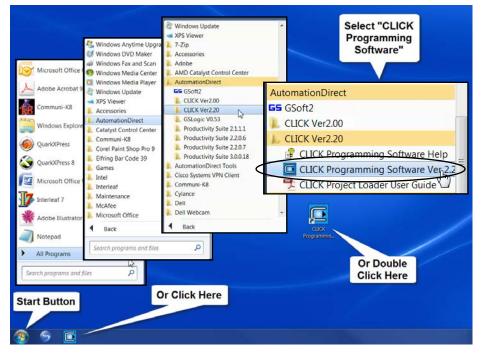
Command for Silent Install: CLICK_Setup.exe -s



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Step 2: Launch Programming Software

After installing the CLICK Programming Software, C0-PGMSW, choose one of three methods to launch the software. Double click the desktop CLICK icon or, from the PC's Start menu, slide the mouse pointer through the menus (Start > All Programs > AutomationDirect > CLICK Ver 2.50 > CLICK Programming Software) and click the CLICK Programming Software selection or, simply click the icon on the Quick Launch bar. See examples below.

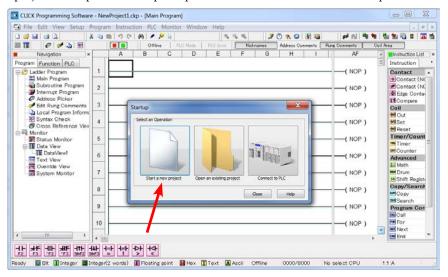


CLICK Programming Software will start up and display the Main Window as shown on the next page.

NOTE: The recommended minimum screen size for the CLICK Programming Software is 1024 X 786 pixels.

Step 2: Launch Programming Software (cont'd)

The Main Window is divided into Menus, Toolbars, and Windows that work together to make project development as simple as possible. See the software's online help for additional details.



Click on the "Start a new project" graphic in the Startup dialog box. The Select a CPU Module window opens.

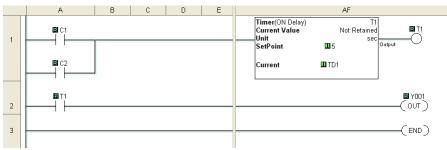
Current CPU Type		CPU Detail Information			
		Contents	Values		C0-12DD1E-D
Select CPU Type		Input	X001-X004	Ko	C1
C0-10DD1E-D		Input Type	DC(Sink/Source)		X1
C0-10DD1E-D	*	Output	Y001-Y004	PWR	RUN 2 X2
C0-10DRE-D		Output Type	DC(Sink)	RUN E	
C0-10ARE-D	-10ARE-D	Pwr Consume(mA)	110		STOP C2
C0-11DD1E-D		RS-485	Yes	PORT1	Y1
C0-11DD2E-D C0-11DRE-D		1.00		LNK/ACT	F Y2
C0-11ARE-D	_	Calendar/Clock	Yes	ETHER NET	¥3
C0-12DD1E-D		Battery Back-up	Yes	100MBIT	
C0-12DD2E-D				PORT2	AD1V
C0-12DRE-D				TX2 =	AD11
C0-12ARE-D	=			RX2 🗰	AD2V
C0-12DD1E-1-D C0-12DD2E-1-D	-	Description		RS-232	AD21
C0-12DD2L-1-D		· · · · · · · · · · · · · · · · · · ·)C in 4DC sink out (4in&4out	PORT3 RS-485	DA1V
C0-12ARE-1-D		High-Speed) 2A/D, 2D/A		TX3 = E	+ 👅 👅 🛛 DA11
C0-12DD1E-2-D		high opecal 20/07 20/0	•	RX3	- = DA2V
C0-12DD2E-2-D					LG DA21
C0-12DRE-2-D	-				

Select from the list on the left for the CLICK PLC unit that you will use for the ladder logic example that follows.

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Step 3: Create a Project

In this step, the project shown below is created by entering the ladder logic program in the order that follows.



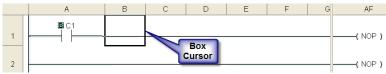
Rung #1

Place the Box Cursor on the first position on Rung #1, as shown below. From the Instruction List, click & drag a Contact (NO) into this box. Enter C1 into the **Bit Memory Address** text box of the **Contact Normally Open** dialog box that pops up and click OK.



Instruction List × Instruction Contact H Contact (NO) 🗶 Contact (NC) 🚯 Edge Contact 로 Compare Coil 🔎 Out 🕅 Set 📖 Reset Timer/Counter Timer COUNTER Advanced 🛓 Math 💵 Drum Shift Register Copy/Search сору Сору search Program Control tett Call FOR For Next END End Communication Receive so Send

A normally open contact labeled C1 will be placed in the beginning of Rung #1.



The Box Cursor will move to the next available location.

Proceed to the next page to continue construction of Rung #1.

Rung #1 (cont'd)

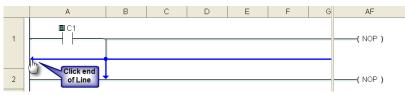
The Line creation tool is used to add a normally open contact in parallel with the C1 contact. Click on the Line creation tool icon located on the Edit toolbar. A blue line will appear, showing the direction of the new line. The Line pen is used to redirect the new line.



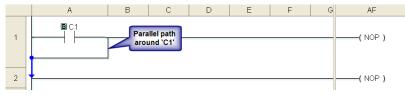
Move the mouse pointer to the end of the new line (arrow) until the mouse pointer becomes a hand with a pointing index finger. Click on the line's arrow.



Additional new lines are shown in blue. Move the mouse pointer to the end of the new line that extends to the left and click.



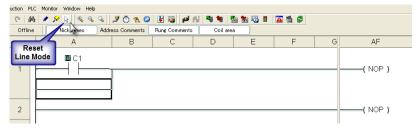
There is now a parallel path around the C1 contact that was first entered as shown here.



Proceed to the next page to continue construction of Rung #1.

Rung #1 (cont'd)

Next, click on the **Reset Line Mode** icon located on the Edit toolbar (Esc key has the same function as the **Reset Line Mode**). The Box Cursor will move to the newly created path. If not, position the Box Cursor over the new path to get ready for the next instruction.





NOTE: There is also a Line Erase tool icon next to the Line tool icon on the Edit toolbar that is used to erase any of the lines that were created using the Line tool. Also, to exit the Line or Line Erase function, click on the Reset Line Mode icon on the Edit toolbar. All of the Line type tools are also available under the Edit drop down menu.

1	33 .	33.	33	
/	Ξ		Ξ	۱
/	=		_	l
_	-		_	I

NOTE: Lines to form parallel paths in the ladder logic can also be created with the use of the cursor keys in conjunction with the CTRL key on the PC's keyboard.

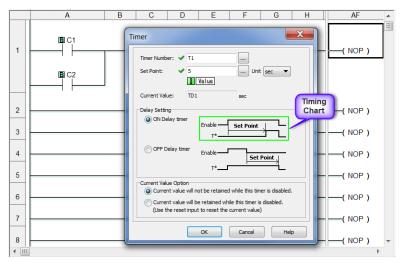
Proceed to the next page to continue construction of Rung #1.

Rung #1 (cont'd)

From the Instruction List, click & drag a Contact (NO) into the Box Cursor. Enter C2 into the Bit Memory Address text box of the Contact Normally Open dialog box that pops up and click OK. A normally open contact labeled C2 will be placed in parallel with the C1 contact.

	А	В	С	D	E	F	G	AF
1		Contact	formally Open					(NOP)
2		Bit Men	ory Address: ✔ 🖸	2				(NOP)
3					telp			(NOP)
4								(NOP)

Next, place the Box Cursor on the NOP coil at the far right of Rung #1. NOP stands for No Operation and is a place holder in the ladder logic Coil Area. Click & drag a Timer from the Instruction List into this location. Within the Timer dialog box, enter T1 into the Timer Number text box, the value 5 into the Set Point, and select **sec** for the timing Unit. The Timer dialog box shows a Timing Chart that graphically represents the function of the ON Delay Timer, and also shows a selection for an alternative OFF Delay Timer mode of operation.



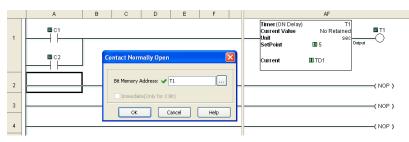
Leave the Delay Setting at ON Delay Timer and the Current Value Option set for the first selection. Click OK. A timer labeled T1 will be placed at the end of Rung #1.

Proceed to the next page to enter Rung #2.

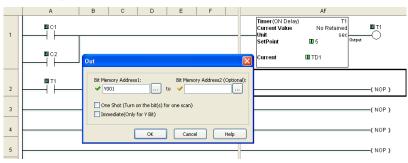
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Rung #2

Place the Box Cursor at the beginning of Rung #2. From the Instruction List, click and drag a Contact (NO) into this box. Enter T1 into the Bit Memory Address text box of the Contact Normally Open dialog box that pops up. Click OK. A normally open contact labeled T1 will be placed in the beginning of Rung #2.

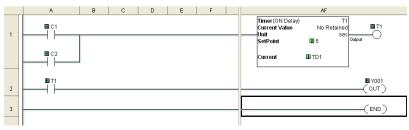


Next, place the Box Cursor on the NOP coil at the far right of Rung #2. Click and drag an OUT from the Instruction List into this location. Within the Out dialog box, enter Y001 into the Bit Memory Address: text box. Click OK. An out coil labeled Y001 will be placed at the end of Rung #2.



Rung #3

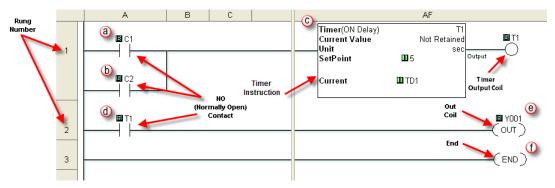
Finally, place the Box Cursor on the NOP coil at the far right of Rung #3. Click and drag an END from the Instruction List into this location. An END instruction indicates the last part of the main ladder logic program. You have created your first project!



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Program Execution

The following is an explanation of how the CLICK PLC executes the ladder logic program that was just entered.



The CLICK PLC executes the ladder logic program instructions, starting with Rung #1, from left to right, and then proceeds to execute the next rung in the same fashion, carrying on through all of the rungs in sequential order. The 6 instructions (a, b, c, d, e and f) in the above ladder logic program are executed in the following order.



Explanation of the Program Execution

- (a) NO (Normally Open) Contact: Address C1 and C2 are assigned to a NO Contact. C1 and C2 are internal control bits. The internal control bits are 1 bit memory and hold the status of ON or OFF. The contacts are enabled when the status of C1 or C2 is ON.
 - C Timer: This instruction is used to delay an action once it is enabled. The CLICK PLC unit can use up to 500 timers (T1 to T500) in a project. In this ladder logic program, timer T1 is assigned. The Timer instruction is set up as an ON Delay Timer with a 5 second set point. That is, the timer status bit T1 output coil turns on 5 seconds after the enable input of the Timer instruction turns on.
 - (d) This is a NO Contact addressed as T1 and whose status is controlled by Timer T1. The contact is enabled when Timer T1 output coil becomes true after the 5 second delay.
 - OUT: This is an output coil addressed as real world output Y001, which happens to be the first output on the CLICK PLC unit. It becomes active when the T1 NO Contact in this rung becomes enabled.
 - END: This is the END of the ladder logic scan, and causes the scan to start at the beginning.

Step 4: Compile and Save Project

Syntax Check (Compile)

Next, you will need to compile the ladder logic program. Compiling the program is done with the Syntax Check function. The ladder program is checked for problems and other conditions that may prevent the ladder program from executing correctly. The results of the Syntax Check are displayed in the Output Window at the bottom of the Main Window as shown below.

g S	oftware	- NewProj	ject1.	ckp - [/	dain P	rog
up	Program	Instruction	PLC	Monitor	Windo	₩
4		ew Subroutin ew Interrupt	-		trl+U trl+I	الم ss
-	Addres	s Picker		C	rl+T	Ī
PLC n		ing Comment roject Inforn		-	trl+M	
m	Synta>	: Check	N	F	3	
⊃ro igra	gram m	2	3			



From the Program drop down menu, select Syntax Check as shown at left, or press the F8 function key on your keyboard, or click on the Syntax Check icon located on the Program Toolbar.

If everything in the program checks out correctly, then the Output Window will indicate 0 error(s) as shown in the following example.

Main Program	^	
NewProject1 - 0 error(s), 0 warning(s)		
	~	

If there are any errors, they will be indicated in the Output Window. For quicker troubleshooting, double click on any particular error in the Output Window and be taken directly to the rung and instruction that may be causing the error. The following is an example of an error.



Save Project



It is always a good practice to save your project at this point. From the File drop down menu, select Save Project, as shown here, or click on the Save Project icon located on the File Toolbar.

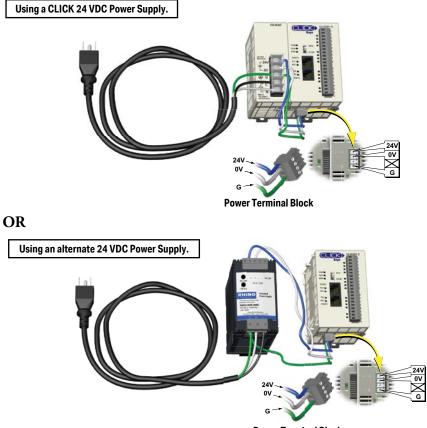
Save As			? 🛛
Save in: 🚞	Project	💌 G 🦻	⊳ 🛄 🕫
File name:	Timer1.ckp		Save
			Cancel

Enter the File Name for your project in the Save As dialog box. You can also browse to the folder that you want the project saved under. Click Save.

Step 5: Apply Power

The CLICK PLC system works with 24 VDC power. There is a small terminal block on the bottom of the CLICK PLC unit. Wire the 24 VDC output from a CLICK power supply, or a properly sized and rated 24 VDC power supply such as AutomationDirect's RHINO series, to the bottom terminal block (See Chapter 2: Specifications for power supply specifications.)

EITHER



Power Terminal Block

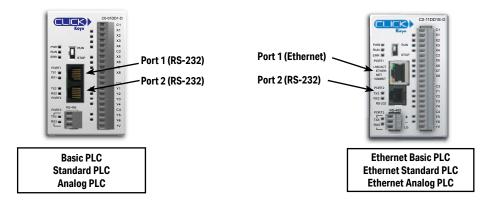
Once you wire and power up the power supply, confirm the PWR indicator (Green LED) on the CLICK PLC unit is on.

If the PWR indicator is not on, check the voltage on the terminal block with a voltage meter. If you measure 24 VDC on the terminal block, the CLICK PLC unit may be defective. Please try another one or contact us for a replacement.



Step 6: Establish PC to PLC Communications

Next, connect a personal computer (PC) to Port 1 or Port 2 on the CLICK PLC unit. You can use one of the following communication ports on the CLICK PLC unit for programming.



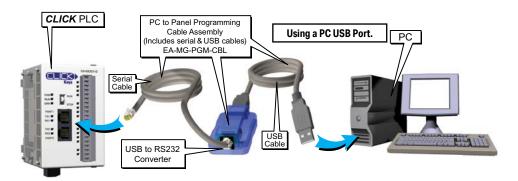


NOTE: Port 2 (RS-232) setup can be changed by the customer. We recommend using Port 1 for Programming.

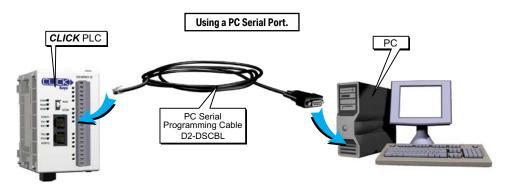
Using an RS-232 port for Programming

EITHER

If a USB port is available on the PC, then use an AutomationDirect USB to RS232 PC to Panel Programming Cable Assembly (P/N - EA-MG-PGM-CBL) to connect between the USB port on the PC and the RJ12 connector on the PLC's Port 1.



If a 9-pin RS-232 serial communications port is available on the PC, then use an AutomationDirect PC Serial Programming Cable (P/N - D2-DSCBL) to connect between the 9-pin port on the PC and the RJ12 connector on the PLC's Port 1.

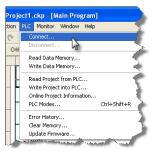




NOTE: Port 1 (RS-232) on the CLICK PLC unit is designed as the primary programming port. The port has fixed communication parameters, so you can always connect the programming software to the CLICK PLC unit through the port without any configuration changes.

Once we have a communications cable connected between a port on the PC and PORT1 on the CLICK PLC, we need to select the PC COM port that is connected to the CLICK PLC. From the PLC drop down menu, select Connect as shown to the right, or click on the Connect icon (left) located on the PLC Toolbar.

The Connect to PLC dialog box will be displayed. Under the COM Port No.: drop down list, select the communications port that is connected to the CLICK PLC Port 1.

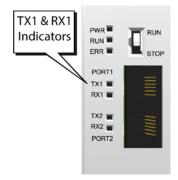


Connect to CLICK PLC				×
Port Type: LJSB	This Computer T Y USB	ote: the CLICK PLC doesn't have a USB port. to need a USB to R5-232 converter cable connect this computer to the CLICK PLC. Converter Cable RS232 Recommended Converter Cable		
Port Type: USB COM Port No: COM1 COM Port Setting COM3 Protocol: COM4 Baud Rate: 38400 CLICK Address: 1 Parity Bit: Odd Stop Bit: 1	V Detail	ADC Part #: EA-MG-PGM-CBL		
	Advanced	ĺ	Connect Cancel Help	

If you are connecting the programming cable to Port 1 on the CLICK PLC unit, you do not need to change any of the parameters, just click the Connect button. The software should start to immediately connect to the CLICK PLC.

If you cannot connect the software to the CLICK PLC, try the above procedure one more time and keep watching the TX1 and RX1 indicators on the CLICK PLC unit.

If the RX1 is not blinking, it means the CLICK PLC unit is not receiving any data from the programming software. Check to make sure you have selected the correct PC COM Port, and also check the cable connections.





NOTE: If using the USB to RS232 converter, and you are not sure to which PC COM Port the USB port is assigned, click the Detail... button next to the COM Port drop down list to identify it. The screen to the right shows the Koyo USB-Serial Com Port device assigned to COM3. Select it and click OK.

(COM Device List 🛛 🔀
	Communications Port (COM1) Communications Port (COM2) Koyo USB-Serial Comm Port (COM3)
	OK Cancel

Proceed to page 1-24

Red.

Step 6: Establish PC to PLC Communications, (cont'd)

Using Ethernet Port for Programming

You can connect your PC to the CLICK PLC via an Ethernet switch/hub or directly to the Ethernet port. You can use a straight or crossover Ethernet cable.



Once we have communications cable(s) connected between the Ethernet port on the CLICK PLC and the Ethernet port on the PC, we are ready to connect the CLICK Programming Software to the CLICK PLC. From the PLC drop down menu, select Connect as shown to the right, or click on the **Connect** icon located on the PLC Toolbar.



Select Ethernet as the Port Type. Select the network adapter that you want to connect to the CLICK PLC, if you have more than one network adapter on your PC. The CLICK programming software automatically scans the CLICK PLC units in the LAN connected to the network adapter and displays them in the list as shown below.

Connect to CLICK PLC								X
This Port Type: Ethernet Network Rdapter: Maryel Yukon 8868053 PCI & Gigabit Eth	Ethernet Direct (Control of the target C On tricke the IAN (Sca	n all CLICK PLCs in the	LAN automatically.]			
Port Setting IP Address: 10.11.0.48 Subnet Mask: 255.255.0.0 Default Gateway:	PLC Name			Part Number		Mode Status	Mac Address	
	Refresh	Blink RUN & ERF	Connect	Cancel	Help			

To connect the CLICK programming software to the CLICK PLC, both the PC and the CLICK PLC must be in the same subnet. In the above **Connect to CLICK PLC** window, the IP Address of the PC is '10.11.0.48' and the Subnet Mask is '255.255.0.0'. You can determine the subnet that your PC is located in by applying the AND operation between the IP Address and the Subnet Mask.

Example:

```
IP Address = 10.11.0.48
AND
Subnet Mask = 255.255.0.0
||
Subnet = 10.11.0.0
```

Edit						×
PLC Network Information						
PLC Name:						
OUse default fixed a	address					
IP Address:	10 . 11	÷	0	•	24	
Subnet Mask:	255 . 255		0	•	0	
Default Gateway:	0.0	÷	0	•	0	
	-10DRE-D	I:BF				
ОК	Cancel					

To match the subnet setup of the CLICK PLC to the subnet that the your PC locates in, select the CLICK PLC unit in the list and click the **Edit** button under the list. The Edit window opens.

Edit	
PLC Network Information	1
PLC Name:	
OUse default fixed a	address
IP Address:	10 . 11 . 0 . 24
Subnet Mask:	255 . 255 . 0 . 0
Default Gateway:	0.0.0.0
	D-10DRE-D D:D0:7C:12:08:BF
ОК	Cancel

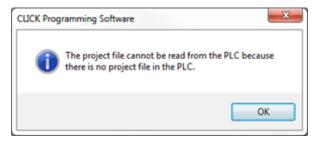
Next, the new IP Address needs to start with '10.11' to match the subnet of the PC. The following 2 numbers however, can be any number as long as the new IP Address is unique in the LAN. In the window here, the IP Address was changed to '10.11.0.24'.

Click the OK button to continue. The new IP Address setup is sent to the CLICK PLC.

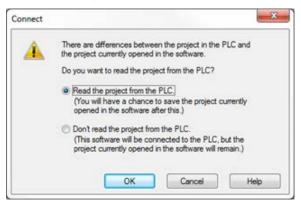
Your PC and the CLICK PLC locate in the same subnet now. Click the Connect button on the bottom to connect the CLICK programming software to the CLICK PLC.

Connect to CLICK PLC									
This Compu Port Type: Ethernet v Network Adapter: Marvel Yuskon 88E8053 PCI-E Ggabit Ethern v	Ethernet	t connection CLICK PLC can all CLICK PLCs in		[y.)					
Port Setting IP Address: 10.11.0.48 Subnet Mask: 255.255.0.0 Default Gateway:	PLC Name	IP Address 10.11.0.24	Subnet Mask 255,255,0,0	Part Number CO-10DRE-D	Firmware Ver2.00	Mode STOP	Status GOOD	Mac Address	
	Refresh	Blink RUN 8	k ERR LEDs Ed	it Cancel) Help	,		1	

If you are trying to connect the CLICK Programming Software to a new CLICK PLC or an older CLICK PLC that was reset to the factory default, you will see the following pop-up message once communication has been established with the CLICK PLC. This is because there is no user project in the CLICK PLC currently. Click the OK button to close the message and proceed to the next step.



If you are trying to connect the CLICK Programming Software to a CLICK PLC that already has a user project, the following Connect dialog box will appear.



It is not unusual that the project opened in the programming software will not match the project that resides in the PLC. The dialog box gives you a choice to either read the PLC's project for viewing purposes, but at the same time allowing the project opened in the software to still be saved, or not read the project in the PLC.

For the Getting Started exercise, click the radio button for the "**Don't read the project from the PLC**" and click OK. Proceed to the next step which will allow the created project to be written into the CPU memory.

Step 7: Write Project into PLC



The next step is used to transfer the project that was created into the CLICK PLC. From the PLC drop down menu, select Write Project into PLC as shown to the right, or click on the Write Project into PLC icon located on the PLC Toolbar.

The following dialog box is displayed.

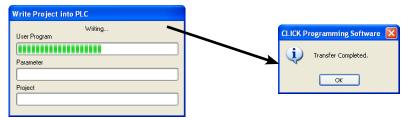
Vrite Project into PLC					
PC			PLC		
Project Name: NewProj	ect1		Project Name:	NewProject1.ckp	
Program Size (Total: 8,00	0 steps)		Program Size (To	otal: 8,000 steps)	
Program Size:	8 steps (0.10 %)	Program Siz	e: 8 steps (0.10 %)
Free Area:	7,992 steps (99.90 %)	Free Area:	7,992 steps (99.90 %)
0		8,000	 0		8,000
Save Project to PLC N	demoru -		Project File (Tota	al: 512,000 bytes)	
Recovery data is writter			Project File S		0.17 %)
The project cannot be r	ead from the PLC w	ithout	Free Area:	511,116 bytes (99.83 %)
this option being selecte	ed				
			0		512,000
Last Update:	27/Feb/200	08, 15:28:35	Last Update:	28/Feb/20	08, 15:50:24
			OK	Cancel	Help



The dialog box displays the information for the Project that is currently opened in the programming software (PC) on the left side. The dialog box also displays the information for any Project that may be stored in the CLICK PLC unit (PLC) on the right side.

Click OK to write the project data from the PC to the CLICK PLC unit.

The Writing... progress window will open to allow verification that the Project is being written to the CPU. When finished, a Transfer Completed message will be displayed. Click OK to continue.



Step 8: Place PLC in RUN Mode



The next step is to place the CLICK PLC into its Run mode so that the ladder logic program will execute. From the PLC drop down menu, select **PLC Modes...** as shown to the right, or click on the PLC Modes... icon (left) located on the PLC Toolbar.

The PLC Modes dialog box is displayed.

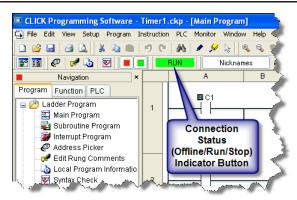
PLC Modes
Current PLC Mode: RUN
New PLC Mode: O RUN
OK Cancel Help



Click the radio button for RUN and then click the OK button. The CLICK PLC is now in Run mode and executing your ladder logic program.



NOTE: The PLC Modes dialog box can also be accessed by clicking on the Connection status (Offline/Run/Stop) indicator button that is located on the toolbar.

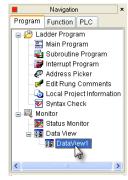


Step 9: Test Project using Data View Monitor

In this next step, use the Data View Monitor to test the ladder logic program by manually overriding the status of the internal C1 bit that was programmed. The purpose of this will be to have the C1 bit enable Timer T1. From the Navigation window on the left side of the development screen, select the Program tab, open the Data View folder under Monitor and double click on DataView1.

The Data View window is displayed.

해 <mark>말 Dat</mark> Ed	it Fill <u>D</u> ow	1	Al New Values	View Override	R OFF
No.	Address	Nickname	Current Value	Viewing Format	~
001					
002					
003					
004					
005					
006					
007					
800					~
	xport			Close	Help



Click the Edit button and type in C1 as the Address as shown below.

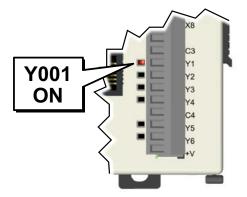
¥₩ I	Data	View -[Dat	aView1]					
Γ	<u>E</u> dit	Fill <u>C</u>	own	谢 Write A	I New Values		View Override	OVR OFF
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Double click the ON button in the New Value column. The Current Value of the C1 bit changes from OFF to ON. Go to Step 10: "Y001 Output On?"

¥R	Dat	a View -[D	ataView1]					
Γ	Ec	lit F	ill <u>D</u> own	谢 Write A	I New Values		View Override	VR OFF
N	lo.	Address	Nickname	Current Value	New Value	Write	Viewing Format	~
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0	04							
0	06							
0	06							
0	07							
0	08							~
		xport					Close	Help

Step 10: Y001 Output On?

CLICK PLC output Y001 (labeled Y1 on the PLC unit) will turn on 5 seconds after you write the ON state to the C1 bit using Data View in the Edit mode.



If you missed viewing the transition of the Y001 status LED from OFF to ON, write an OFF state to the C1 bit and then an ON state in the Data View Monitor to do it again.

A	333333 1
/	=

NOTE: Also, try changing the status of the internal C2 bit. The results should be the same because the C2 bit is in parallel with the C1 bit. The ladder logic reads: "Enable timer T1, if either C1 or 'C2 is true."

Congratulations!

You have now learned how to create, compile and transfer a ladder logic project to a CLICK PLC, and then run and test the project. There are additional instructions available for the CLICK PLC. Please refer to the programming software online help topics for details on these instructions.

Again, thank you very much for using the CLICK PLC system.

Additional Training Resources

In addition to this Getting Started chapter, there are other resources we recommend, for both the novice and pros, that will aid you in learning more about using the CLICK PLC system.

Automationdirect.com Online Video Site - http://automationdirect.com/videos/home is an online video tutorial site offering free on-demand video tutorials on a wide range of practical industrial products, including the CLICK PLC.

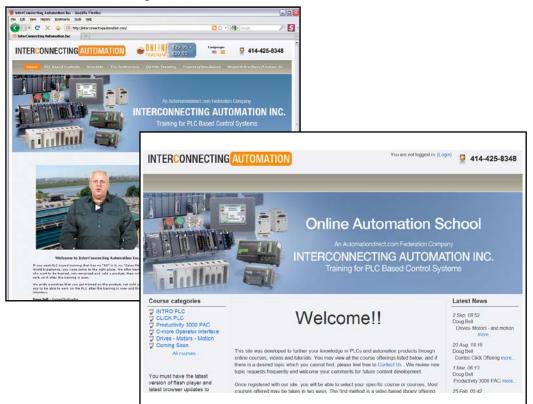
From the Automationdirect.com home page, select (a) "Video Tutorials". When the page opens select (b) "Programmable Controllers" on the top, lefthand topic bar for Video Filter list. Select (c) "CLICK series PLCs". A page of CLICK specific videos will open. A search for CLICK (d) will pull up all the CLICK videos as well. The videos cover all aspects of the CLICK PLC, from an introductory video, to communications, and programming.



Interconnecting Automation Online Training Courses offered at-

http://www.interconnectingautomation.com/onlinecourses

Interconnecting Automation offers inexpensive subscription-based online training, including CLICK PLC training.



Also, a CLICK PLC Trainer is available from this web site.

