## How to connect to the PLC E10 or to the PLC trainer PTSE10

1) Once you have installed the software successfully, select the Wintrilogi application, following the path shown below:



2) Make sure you select E10 Series. If you select H-series you program won't work on the PLC e10 or the PLC trainer PTSE10

👹 Win	TRiLOGI Version 3.5 - Untitled	🗙	Ð
File E	dit Controller Simulate Circuit Help	Drace Ed for control consition Lister	at
			D
	© E10+		ab
	C H-series	E	abr
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3) On the menu "Controller" select Serial Port Setup to check that your communication parameters on the PC are matching the ones you have on the PLC



## 4) On Command String type: IR\*

If everything is OK, you should receive a response string of IR01\* or IRXX\* where XX are the ID number of the PLC you have, in case that you are programming one of the PLCs on a Network.

🖉 Serial Communication Setup & Test	👹 Serial Communication Setup & Test					
Port Name: COM6 💽 Baud Rate 9600 💌	Port Name: COM6 🗨 Baud Rate 9600 💌	Pa				
Data Bits: 8 💌 Stop Bits: 1 💌	Data Bits: 8 💽 Stop Bits: 1 💌	8				
Parity: None 🔽 Time Out (ms) 500	Parity: None 🗨 Time Out (ms) 500					
Open Port         Close Port         Connect         Hang Up         Special           Modem         Auto Answer         Phone No.	Open Port         Close Port         Connect         Hang Up         Special           Modem         Auto Answer         Phone No.	neo				
Command String: (Press <enter> to Send)</enter>	Command String: (Press <enter> to Send) Command String: (Press <enter> to Send)</enter></enter>					
IR*	IR*	get				
Response Strings & Modern Messages FCS Clear	Response Strings & Modern Messages FCS Clear					
IR01*	(Warning: No Response from PLC !)					
		L				
Change PLCID Close F1-Help	Change PLCID Close F1-Help					

If you get the following message: "(Warning: No Response from the PLC!)" then you need to check for problems with:

- a) Com port. Verify if you are selecting the right port. This is very important when you are using a USB to serial converter. Not all of them work right and the assign a different serial com port number.
- b) Communication settings. Make sure that your communication settings are exactly the same as the ones on the PLC. To make any change you need first to click on "Close Port", make your changes and then click on "Open Port".
- c) Power on. If the wall adapter is connected you should see that the green LED on the PLC is ON. If not, check the Main Fuse and the wall adapter connection

Once you are connected you can close the "Serial communication Setup and Test" screen

## How to load a program and transfer it to the PLC

1) Follow the path as shown on the image below:

FILE>OPEN (Local Drive)>WTL3>Your File

🖉 WinTRiLOGI V	ersion 3.5 - U	ntitled							
File Edit Contro	ller Simulate	Circuit	Help						
New	C	Ctrl+N	1	P	ress F1 for context-sens	itive Helps			
Save	C	Ctrl+S				<u>^</u> <u>+</u>			
Open (Loca. Save As (Loca.	l Drive) l Drive)								
Print				Loading Loc	al File			? 🗙	
C:\TRiLOGI\WT	L3\SEQTEST2.	PES		Look in: 🔯	WTL3	•	🗈 💣 🎫		co E1 for cor
Exit			J	Help isva lib Unstall 8TIMER.PE	LOAD_HEX.PE3	SHIFTREG.PE3	3		
<				E BLANK.PES	9 🛅 SEQTEST.PE3 9E3 💼 SHIFTR2.PE3		Type: PE3 File Date Modified: Size: 759 byte:	12/1/20 s	02 12:00 PM
				File name:	WATERLVL		Ope	n	
				Files of type:	All Files (*.*)		- Cano	el	

In this case, we want to open WATERLVL.PE3 so, once is highlighted with the mouse, click on Open.

2) The PLC program corresponding to WATERLVL.PE3 will open.

Š	WinTRiLO	GI Vers	ion 3.5 - [(	C:\TRiLOGI\W	TL3\WATERLVL.PE3	] - (Source: Local I	Disk) 📕		×
File	e Edit C	ontroller	Simulate	Circuit Help					
	Circuit#1	E	10+			Press F1 for contex	d-sensitive	Help	s
ľ	OpenValv ┩┝	Clk:1.0s					Timeout —(CTR)	^	-
	This is Level ( water l	a typical a Control, Tv level, The	pplication for vo level sens valve "Open"	E10 PLC in Auto ors "Upper" and ' Valv" is activated	matic water "Lower" sense the I to fill water				
	Start H Rly1	Stop 					Rly1 —(RLY)		
	When wa is de-activ	ter level fa vated and f	ills below the the valve will	"Lower" sensor open to re-fill the	mark, "Lower" sensor water				
-	Riy1 ──┦ ├───	Lower					OpenValv —[Latch]		
	Upper H						OpenValv —[Clear]		
	If the wa then sou	ater fail to und a war	reach upper ning to alert o	level after 2 minu perator.	tes (120 sec)				
	DpenValv ¥						Timeout —-[RSctr]		
_	Timeout	Clk:1.0s					Warning —(OUT)		

3) If you want to simulate the project prior to download it to the PLC, Click on "Simulate" and then "Run". Remember that to perform a Simulation of a ladder program you don need to be connected to the PLC or PLC trainer. In fact, you don't need the hardware at all.

Ś	🛿 WinTRiLOGI Versi	on 3.5 - [C:\TRiLOGI\WTL3\WAT	ERLVL.P	E3] - (Source: Local Disk) 🔳
Г	File Edit Controller	Simulate Circuit Help		
	Circuit#1 E	Run (All I/O Reset) Ct	r1+F9	Press F1 for context-sensitiv
	OpenValv Clk:1.0s	Run (reset except i/p) Ct Continue Run (no reset) Compile Only Reset &11 1/05 C	F8 57 58 57 57 57 57 57 57 57 57 57 57 57 57 57	Timeout (CTR)
	This is a typical a Level Control. Tw water level. The	o level sensors "Upper" and "Lower" sen valve "OpenValv" is activated to fill water	nse the r	I

A new screen will appear, showing the status of most of the elements. If you want to simulate the activation of any input, just click on that particular input.

😸 Programmable Logic Simulator			
		View Select Co	ntrol 🔽 Pause
Input Timer	Counter	Relay	Output Reset
1       Start       1         2       Stop       2         3       Upper       2         4       Lower       4         5       6       6         7       7       7         8       9       9         10       10       10         11       11       12         13       13       14         15       •       15	1 119 Timeout 2 2 3 4 5 6 6 7 8 9 10 11 12 13 14 ✓	1         Rly1           2         3           4         5           6         7           7         8           9         10           11         12           13         14           ▼         15         ▼	1         OpenValv           2         Warning           3
			N

If you don't want to perform any simulation, just skip this step.

4) Transfer the program to the PLC or PLC trainer

Select "Controller " and then "Program Transfer to PLC". You can see that you can also use the keys "CONTROL" and "T"

	] - (Source: Local Disk) 🔳	ERLVL.P	WTL3\WAT	[C:\TRiLOGI\W	LOGI Version 3.5 - [I	WinTRi	1
			elp	e Circuit Help	Controller Simulate	le Edit	÷ F
ve Helps	Press F1 for context-sensitive		Ctrl+I	ler	Select Controlle	Circuit#	
Jt 🔼 📥	Timeout			sup	Serial Port Setu	OpenValv	
	(CTR)		Ctrl+M	ring	On-Line Monitori	4	
			Ctrl+T	er to PLC	Program Transfer		4
				Source File	Open Matching So	This	
		e the		ware Info	Get PLC's Hardwa	Lev	
				Time Clock	Set PLC's Real 7	wat	
	S Input PLC's ID Address	-					
rc					Stop	Start	
	Current ID (00-FF)						
-	Detect ID OK						
K	Current ID (00-FF)	e the		Source File ware Info Time Clock	Open Matching So Get PLC's Hardwa Set PLC's Real 1 Stop	This Lev wat	

5) A small window will show up, prompting you to enter the ID (if you know it) otherwise click on "Detect ID" and it will get the ID for you.



6) If you want to see the operation of the PLC program ON-LINE Then select: Controller>On-Line Monitoring. You can also use the keys "Control" and "M" to go to On-line monitoring mode, as shown on the screen below.

4	👹 WinTRiLOGI Version 3.5 - [C:\TRiLOGI\WTL3\WATERLVL.PE3] - (Source: Local Disk) 📃 🗖 🔀							
F	ile Edit	Controller Simulate Circuit Help		_				
	Circuit#	Select Controller	Ctrl+I	Press F1 for context-	sensitive Helps			
Γ	OpenValv	Serial Port Setup			Timeout 🛛 📥			
Þ	<u> </u>	On-Line Monitoring	Ctrl+M		-(CTR)			
		Program Transfer to PLC	Ctrl+T					
	This	Open Matching Source File						
	Lev	Get PLC's Hardware Info		e the				
	wat	Set PLC's Real Time Clock						
	Start	Stop W		-	Riy1 –(RLY)			
	When v		mark, "Low	er" sensor	× •			
<					>			

7) Then the screen of On-line monitoring will show up. Now you can command the PLC either from the real push-buttons and switches on the trainer or the inputs on the screen of your PC. Both options will have the same effect on the PLC program

