# 2 Installation and Connections

# 2.1 Installing the configuration software

Look for the installer icons in the directory where you unzipped the download that got you to this document. The installer icons look like this:



VP4-Modbus\_Setup.exe iCanDrawIt\_Setup.exe

The installation is a 2-step installation. Install VP4-Modbus first. Then install i.CanDrawIt second.

Double click the icon to run the setup.exe. You will be questioned about whether to continue because Windows cannot verify the publisher of the software. Permit installation to continue. The sequence of installer screens include the following on Windows 7:





G ValuPoint VP4-2x10 2.01.00 Setu	qu	
Choose Install Location		Auto
Choose the folder in which to install	ValuPoint VP4-2x10 2.01.00.	
	) 2.01.00 in the following folder. To inst her folder. Click Install to start the insta	
Destination Folder		
C:\VP4-Modbus		Browse
Space required: 7.2MB Space available: 336.4GB Nullsoft Install System v2,45	< Back Install	Cancel

ValuPoint VP4-2x10 2.01.00 Setup	
Please wait while ValuPoint VP4-2x10 2.01.00 is being installed.	
Execute: "C:\VP4-Modbus\vcredist_x86\vcredist_x86.exe"	
Create folder: C:\VP4-Modbus\vcredist_x86 Output folder: C:\VP4-Modbus\vcredist_x86 Extract: vcredist_x86.exe 100% Extract: product.xml 100% Create folder: C:\VP4-Modbus\vcredist_x86\en Output folder: C:\VP4-Modbus\vcredist_x86\en Extract: package.xml 100% Execute: "C:\VP4-Modbus\vcredist_x86\vcredist_x86.exe"	
Jullsoft Install System v2,45	ext > Cancel

The installer will check to see whether Visual C++ support is already installed on your system, and install it if not. This is standard software provided by Microsoft.

When you get to the "Finish" screen, you are ready to go.

( ValuPoint VP4-2x10 2.01.00	) Setup	
	Completing the ValuPoin 2.01.00 Setup Wizard	
	computer. Click Finish to close this wizard.	
	Run ValuPoint VP4-2x10 2.01.00	
	< <u>B</u> ack Finish	Cancel

Next, proceed to install i.CanDrawIt. This part is optional. If you will not be using the VP4-2310/VP4-2810 as a programmable controller, you can skip this step. The first installer screen looks like this:

() iCanDrawIt for ValuPoint 1.1	3.00 Setup	
	Welcome to the iCanDraw ValuPoint 1.13.00 Setup This wizard will guide you through the insta iCanDrawIt for ValuPoint 1.13.00. It is recommended that you close all other before starting Setup. This will make it pos relevant system files without having to ret computer. Click Next to continue.	Wizard allation of applications isible to update
	Next >	Cancel

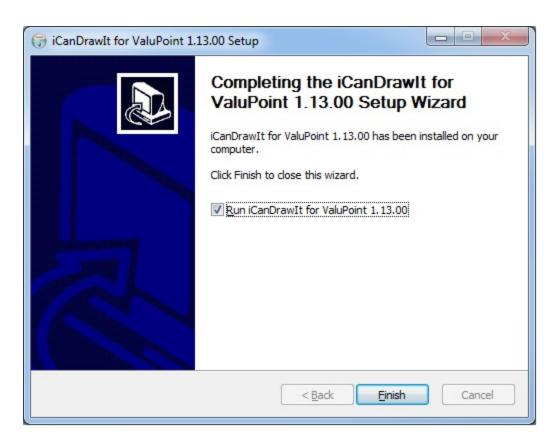
🕞 iCanDrawIt for ValuPoint 1.13.00 Setup
License Agreement Please review the license terms before installing iCanDrawIt for ValuPoint 1.13.00.
Press Page Down to see the rest of the agreement.
i.CanDrawIt®, vp4-23.exe, and accompanying software is free software, and is provided "as-is" without warranty of any kind, including the implied warranty of merchantability or fitness for a particular purpose. Control Solutions, Inc., reserves the right to make changes or improvements to i.CanDrawIt without notice. IMPORTANT SAFETY CONSIDERATIONS: Proper system design
is required for reliable and safe operation of distributed control
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install iCanDrawIt for ValuPoint 1.13.00.
Nullsoft Install System v2,45
< Back I Agree Cancel

The installation directory should be the same directory that VP4-Modbus was installed into.

🕞 iCanDrawIt for ValuPoint 1.13.00 Setup	
Choose Install Location Choose the folder in which to install iCanDrawIt for ValuPoint 1.13.00.	
Setup will install iCanDrawIt for ValuPoint 1.13.00 in the following folder. different folder, dick Browse and select another folder. Click Install to st	
Destination Folder	Browse
Space required: 8.9MB Space available: 336.4GB Nullsoft Install System v2.45	Cancel

Installing		NUMBER
Please wait while iCanDrawIt for Valu	Point 1.13.00 is being installed.	U
Execute: "C:\VP4-Modbus\vcredist_x	86\vcredist_x86.exe"	
Create folder: C:\VP4-Modbus\vcre	-	
Output folder: C:\VP4-Modbus\vcre	-	
Extract: vcredist_x86.exe 100%		
Extract: product.xml 100%	the office	
Create folder: C:\VP4-Modbus\vcre		
Output folder: C:\VP4-Modbus\vcre Extract: package.xml 100%		
Execute: "C:\VP4-Modbus\vcredist_	v86/woredist v86 eve	
Execute: c. (in thiodods (vi cust_	_x00 (vci cuist_x00.exc	
ullsoft Install System v2.45		

After a few more screens, you will get the familiar 'done' screen.



## 2.2 Serial Port Connection

The configuration and programming tools communicate with the ValuPoint using Modbus RTU via any COM port on your PC, with an RS232 to RS485 adapter (unless you have a native RS485 COM port on your PC, which is unlikely). If you don't have such an adapter, you can purchase one at <u>www.csimn.com</u>. You do not need to install any special drivers to use an RS485 adapter on your COM port. The supercom.dll that gets installed with your tools takes care of connecting the tools to your COM port.

#### 2.3 Indicators on the VP4-0610 Programmable I/O



The LED indicators for the VP4-0610 are mounted on the circuit board inside the device, and are viewable through the vent slots in the case. The two blue LEDs are power indicators. There are two power supplies in the VP4-0610, and both are necessary for proper operation.

The four LEDs toward the bottom are status and communications - primarily used for communications. The green LED to the left is a system heartbeat that simply indicates the device is running. The heartbeat flashes about once every three seconds. If the device is configured to be Modbus master (normally it is slave) but is in configuration mode, then the heartbeat LED flashes faster - about once a second.

The other three LEDs are Modbus communications indicators. The yellow LED flashes when a packet is received (as slave) or sent (as master). The red LED flashes if there is an error. The error can be CRC error or request for something illegal when ValuPoint is a slave. The red LED will also indicate response timeout when operating as master, or indicate that an exception (error) code was returned by the slave. The green LED flashes upon successful completion of a good message.

The red LED is a communication error indicator most of the time. However, during restart it will be on solid. Immediately following startup, it may flash a fault code if a serious error has occurred.



### 2.4 Indicators on the VP4-2310 Programmable I/O

The LED indicators for the VP4-2310 are mounted on the circuit board inside the device, and are viewable through the vent slots in the case. The two blue LEDs are power indicators. There are two power supplies in the VP4-2310, and both are necessary for proper operation.

The four LEDs toward the bottom are status and communications - primarily used for communications. The green LED to the left is a system heartbeat that simply indicates the device is running. The heartbeat flashes about once every three seconds. If the device is configured to be Modbus master (normally it is slave) but is in configuration mode, then the heartbeat LED flashes faster - about once a second.

The other three LEDs are Modbus communications indicators. The yellow LED flashes when a packet is received (as slave) or sent (as master). The red LED flashes if there is an error. The error can be CRC error or request for something illegal when ValuPoint is a slave. The red LED will also indicate response timeout when operating as master, or indicate that an exception (error) code was returned by the slave. The green LED flashes upon successful completion of a good message.

The red LED is a communication error indicator most of the time. However, during restart it will be on solid. Immediately following startup, it may flash a fault code if a serious error has occurred.

#### 2.5 Indicators on the VP4-2810 Programmable I/O



The LED indicators for the VP4-2810 are mounted on the circuit board inside the device, and are viewable through the vent slots in the case. The blue LED is the power indicator. There is one power supply in the VP4-2810.

The other four LEDs toward the bottom are status and communications - primarily used for communications. The green LED to the left (next to power) is a system heartbeat that simply indicates the device is running. The heartbeat flashes about once every three seconds. If the device is configured to be Modbus master (normally it is slave) but is in configuration mode, then the heartbeat LED flashes faster - about once a second.

The other three LEDs are Modbus communications indicators. The yellow LED flashes when a packet is received (as slave) or sent (as master). The red LED flashes if there is an error. The error can be CRC error or request for something illegal when ValuPoint is a slave. The red LED will also indicate response timeout when operating as master, or indicate that an exception (error) code was returned by the slave. The green LED flashes upon successful completion of a good message.

The red LED is a communication error indicator most of the time. However, during restart it will be on solid. Immediately following startup, it may flash a fault code if a serious error has occurred.