

## **Operating the Valve Control System via Touch Screen**

It is possible to operate the Valve Control System without software control via touch screen on the control unit. The touch screen provides most control functions of the VCS which are also available via software. The Valve Control System can be operated in four different modes: "Manual," "Digital," "Analog" and in "Protocol" mode with a computer. Before changing the operation mode it is necessary to close all valves.



Manual Mode

Control each valve individually by clicking on the icon or start and stop all valves together via "Start" button. Use the red "Emergency" button to close all valves immediately, if necessary. The time span after starting the first valve is recorded in the history part of the screen. Times with open valves are indicated in vertical green bars, if the valve is closed you only see the grey time line.





#### **Digital Mode**

Connect the digital input port on the back side of the control unit. Assign valves to digital input ports via the drop down menus and decide whether the digital input should be used "as is" or "inverted". Inverted valves are indicated in green letters above the valve icon. If a digital input has been assigned to a valve, the valve will directly reflect the logical states on the digital port: Digital Input Valve state "as is" Valve state "inverted" HIGH open closed LOW closed open







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Analog Mode

+ 1 800 - 547 - 6766 (Tech Support)

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# Valve Control System VCS

- For more information:





# Installation Guide for Pinch Valve Systems

Setting up a Pinch Valve Control System VCS

• Valve Control via Touch Screen and Computer

Manuals on the provided USB stick https://www.warneronline.com/product/485

## **Overview: Pinch Valve Control System**

### Please read also the Valve Control System Manual!

### Valve Control System VCS

The complete valve control system includes the control unit, a lab stand with valve bracket and valves, a connecting cable from the valve bracket to the control unit, a power cable, a syringe holder, a manifold, syringes, stopcocks, three types of tubings, and an assortment of tubing connectors.



# **Cable Connection**

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Connect the VCS with the power supply unit to the power outlet. Connect the valve connector to the valve bracket.

**ON/OFF** Analog In **Power** Outlet Digital In/Out GND Valve Bracket **Trig/Sync Valves** 

**Control Unit Rear Panel** 





- 1. Mount the Valve Bracket in the lower half of the lab stand. Please fix the bracket with the provided screw.
- 2. Mount the **Syringe Holder** and fix it on top of the lab stand.
- 3. Insert the syringes in the holder and add a Luer Stopcock at each syringe.





6. Insert the C-Flex tube into the interior slot of the Pinch Valves.



7. Insert a short length of **PE-160 Tubing** into the lower end of the Tygon® tubing and make a connection to the Manifold.

8. Insert PE-160 Tubing into the output port of the manifold





## **Tygon Tubes**

PE-160 Tubes

Manifold