VP 418SV-MC SpinVessel® Manual Controller Instructions

Components and Connections

Touch Screen Display

USB A to B

USB C Power Cable

SpinVessel® Control Box

*Smaller box for 25/50ml SpinVessels®

SpinVessel® Power Supply & Power Cord

Components and Connections

1. Plug in the Type A USB connection to an open USB port on the left side of the screen

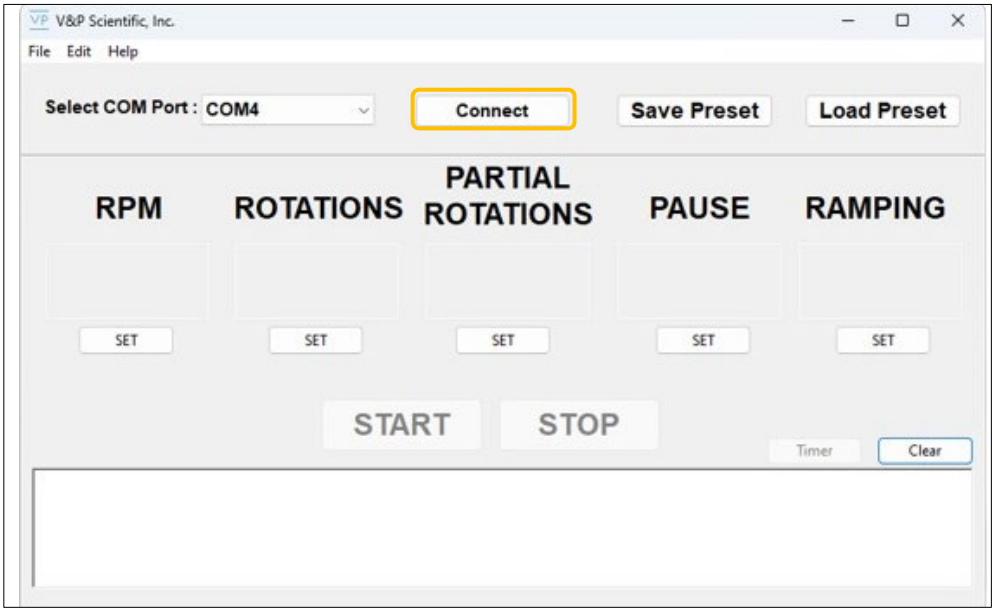
2. Plug in the SpinVessel Power Supply to the Control Box (connect the opposite end to a power outlet)
3. Plug in the SpinVessel Controller Cable
4. Plug in the Type B USB connection

5. Plug in the USB C Power Cable on the right side of the screen (connect the opposite end to a power outlet)
6. Turn the SpinVessel on with the switch on Control Box

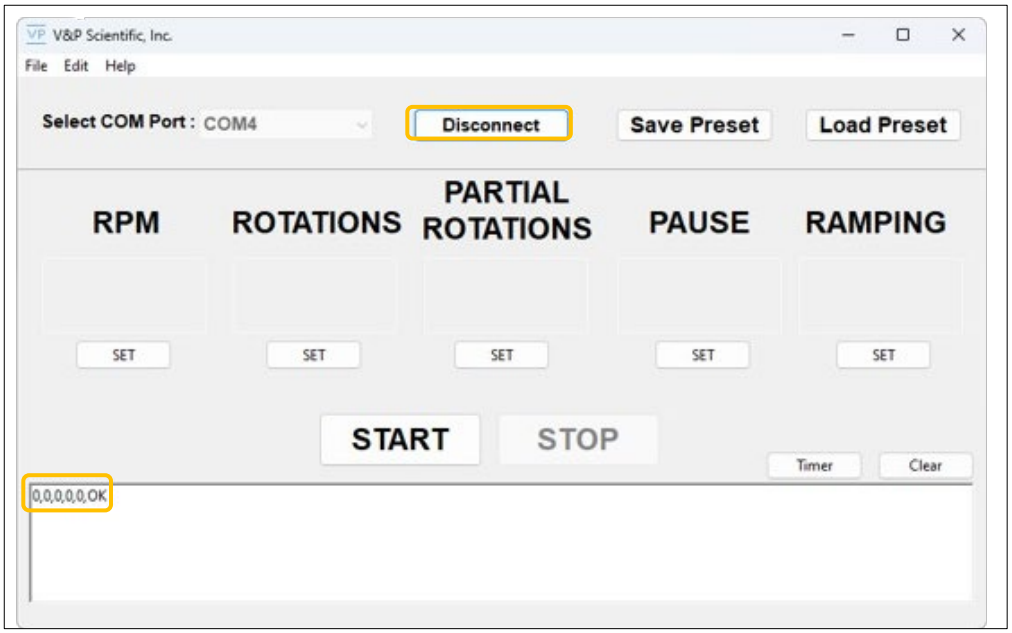
*The USB C Power Cable is the only way turn the Manual Controller on/off

Controller Programming – Setup

1. The **Select COM Port** should be prefilled with the name of the port on the touch screen interface. Simply press the **Connect** button.

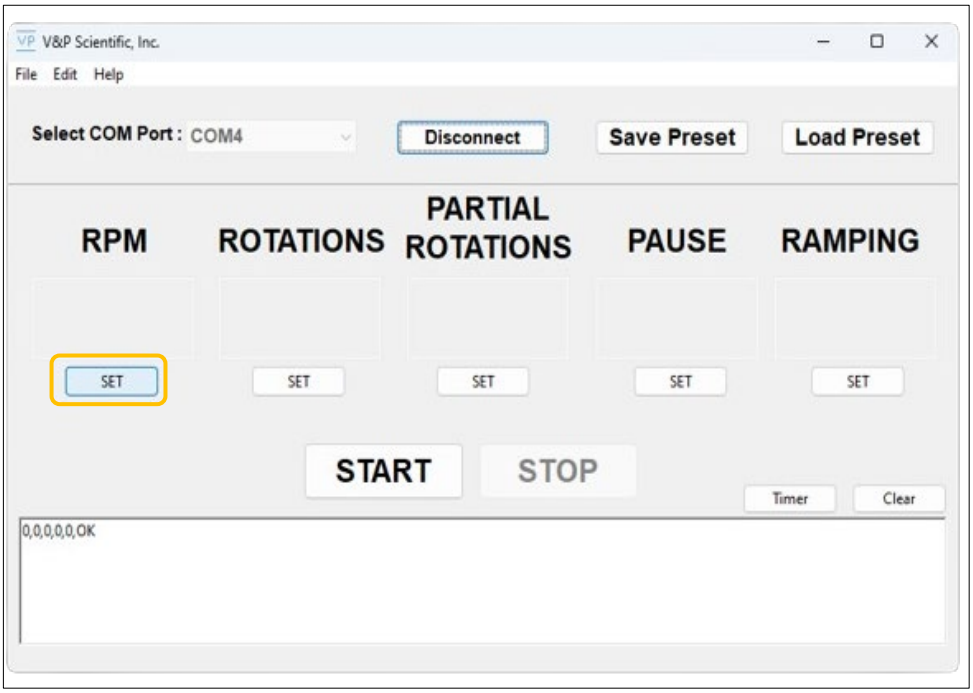


2. The **Connect** button will change its label to **Disconnect** and the feedback window will issue the "0,0,0,0,0 OK" response signaling a successful connection.

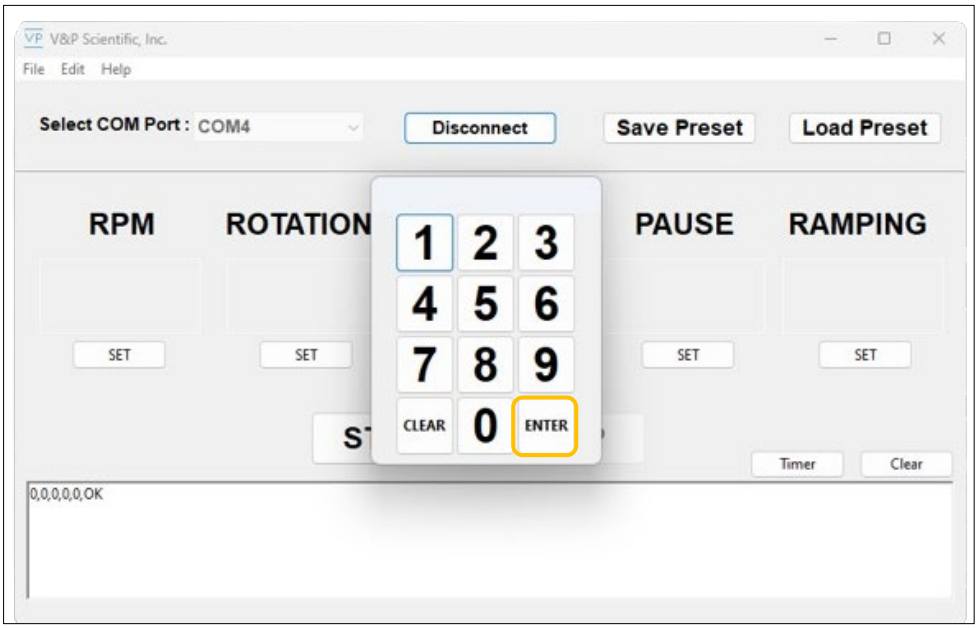


Controller Programming – Setting SpinVessel® Parameters

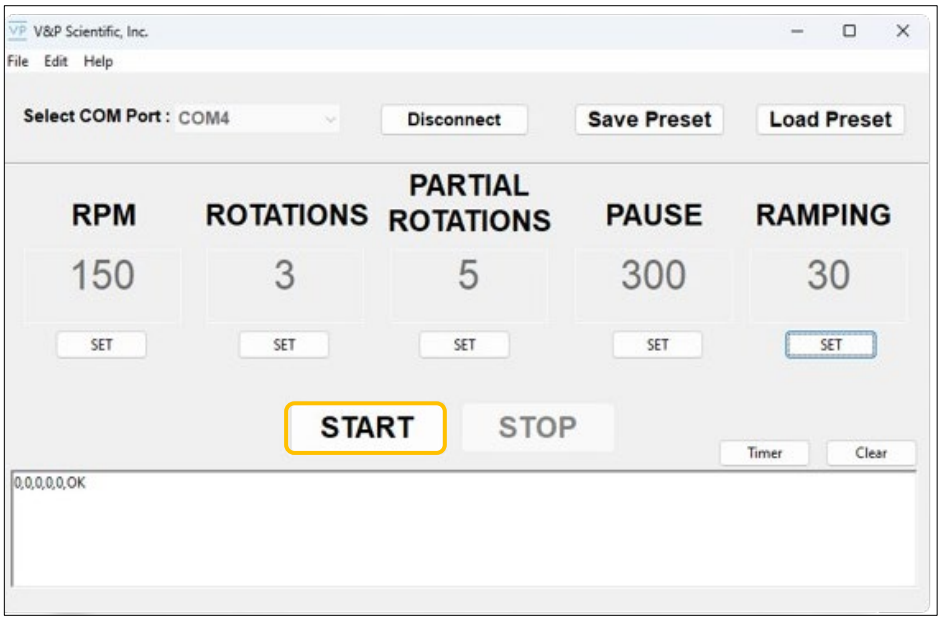
1. To enter a parameter, press the **SET** button under the parameter window.



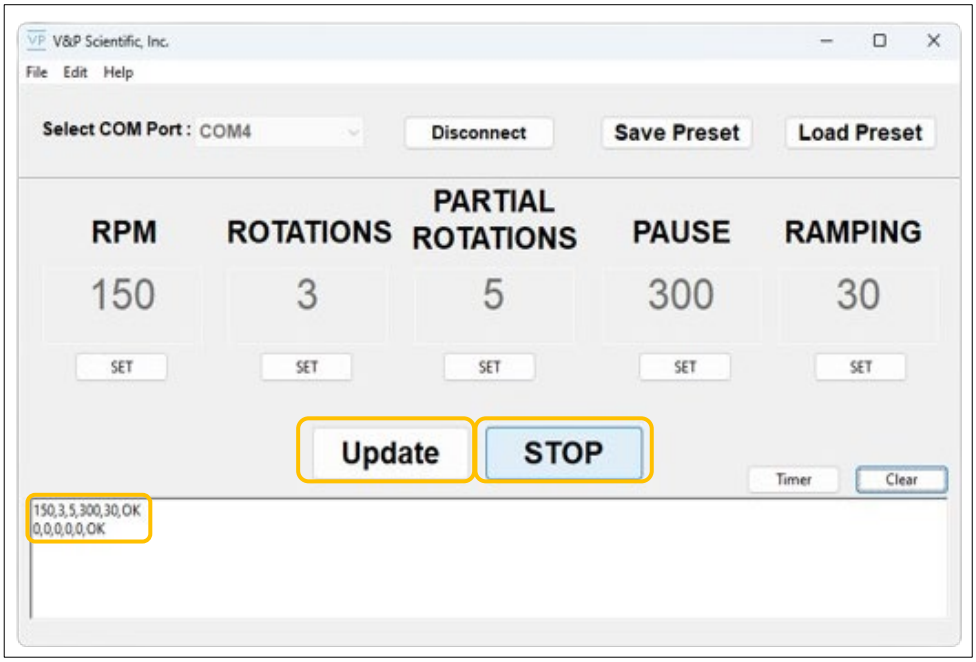
2. This will open a number pad to input the desired figure. Press **ENTER.**



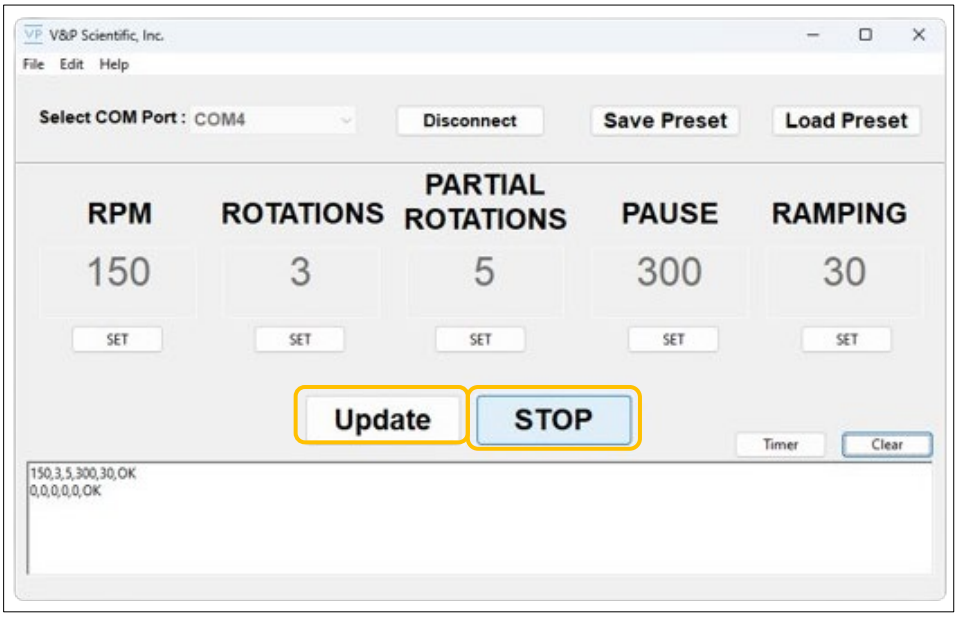
3. Once all parameters have been set, pressing the START button will send the command, and the SpinVessel® will begin functioning.



4. The feedback window will echo your parameters followed by OK, the START button will change to Update, and the STOP button will become valid.

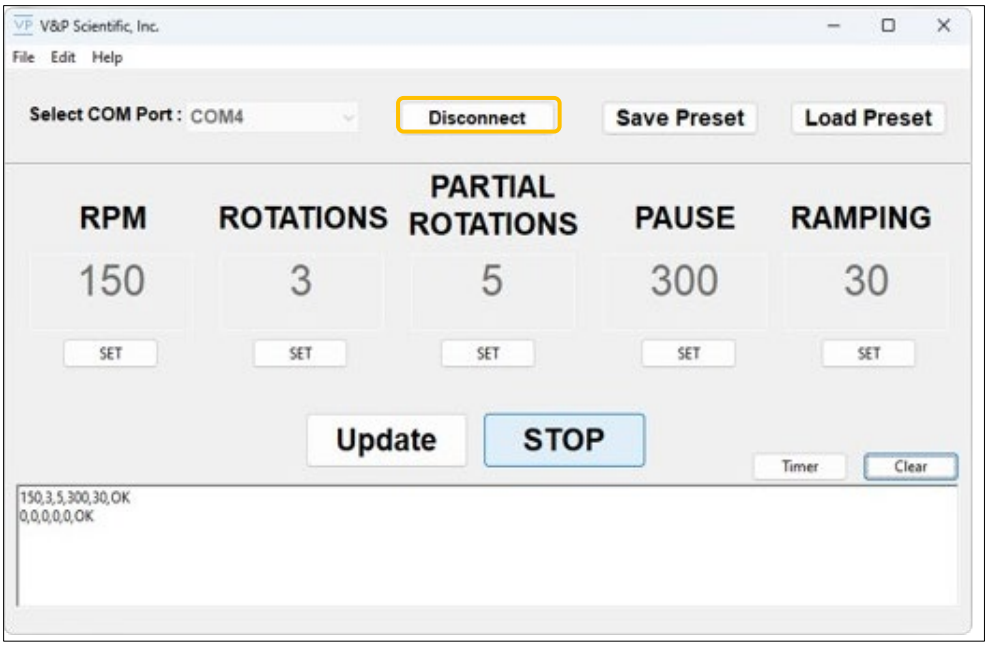


5. The device parameters can be changed by adjusting the values and pressing **UPDATE**. To stop the device, press the **STOP** button.



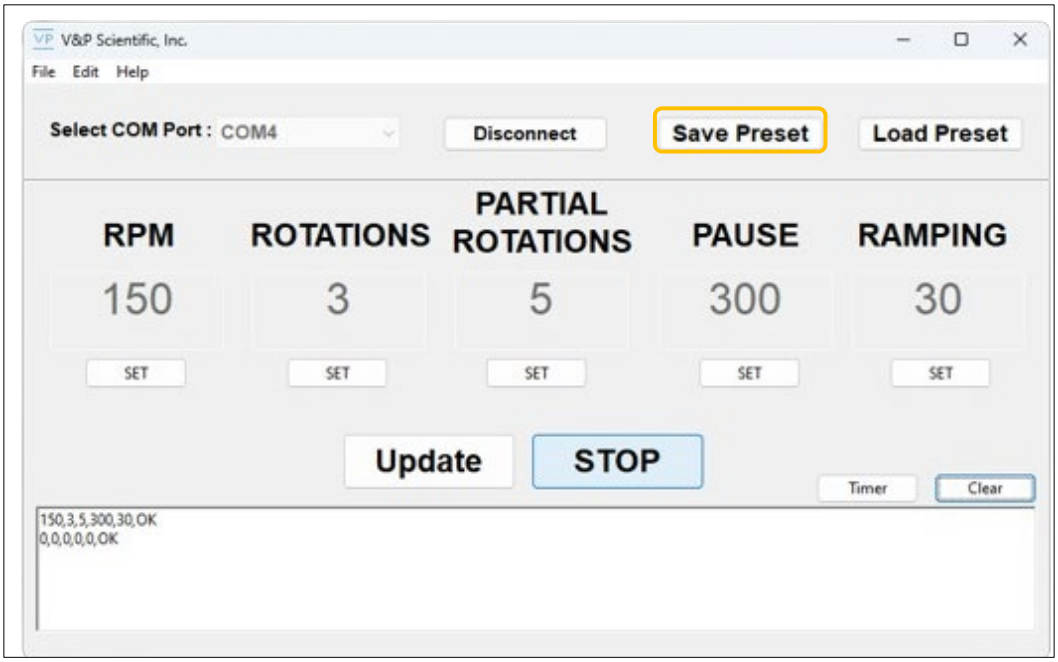
6. To disconnect the controller, first stop the device by pressing the STOP button, then press the **Disconnect** button.

Do not disconnect any cables prior to shutting down the unit

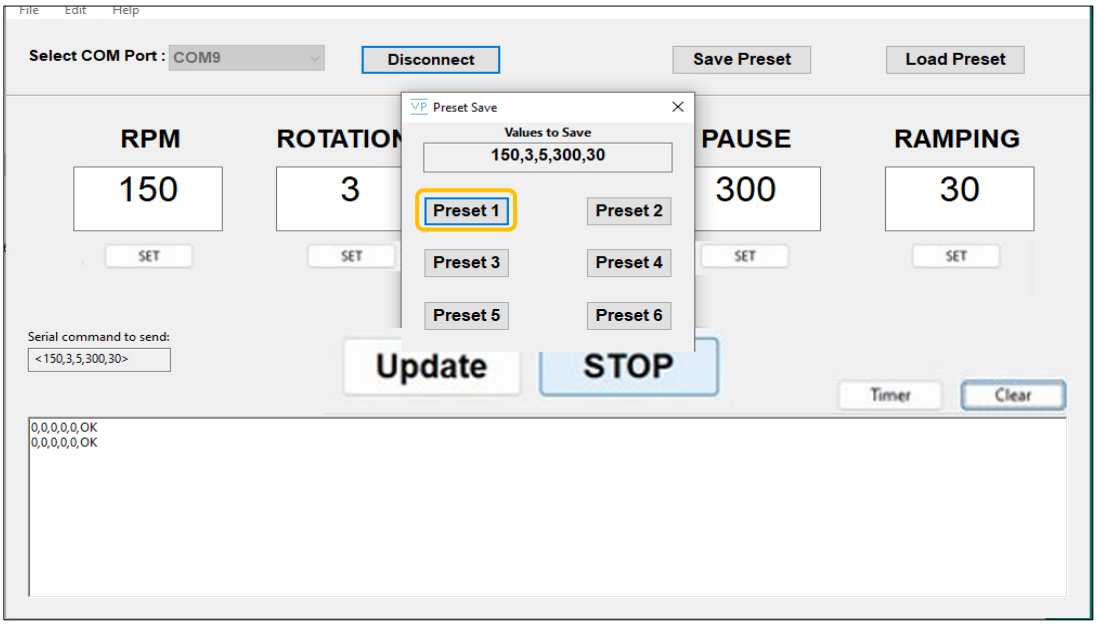


Controller Programming – Creating Presets

1. Once the desired parameters have been set, press **Save Preset.**

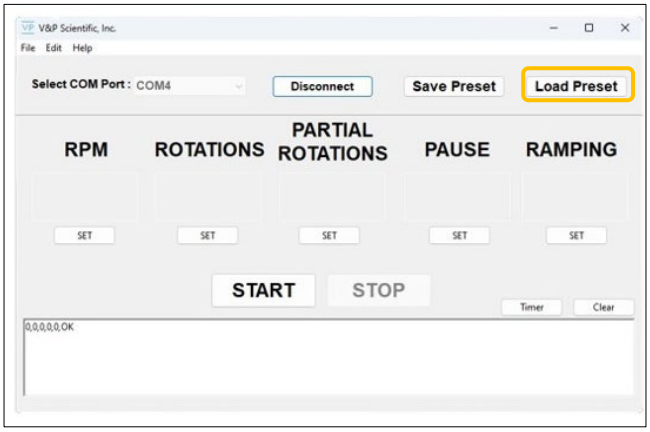


2. Select which preset option you'd like to save as: Preset 1 – Preset 6 (presets cannot be renamed).

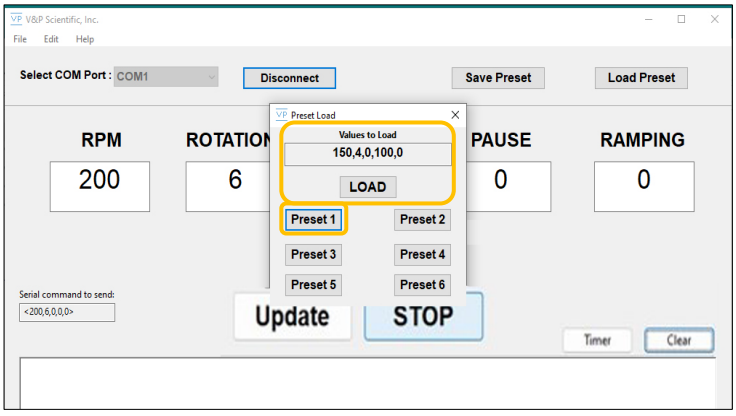


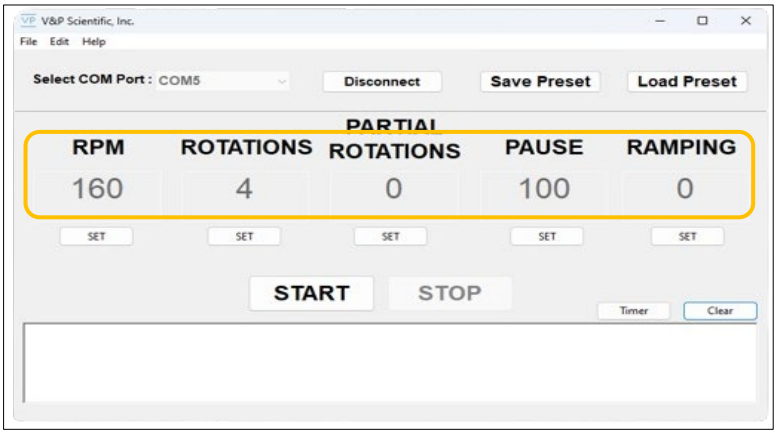
Controller Programming – Loading Saved Presets

1. To load a preset, press **Load Preset.**



2. Select the preset you'd like to run. The values will populate beneath "**Values to Load**".
3. Press **Load.**

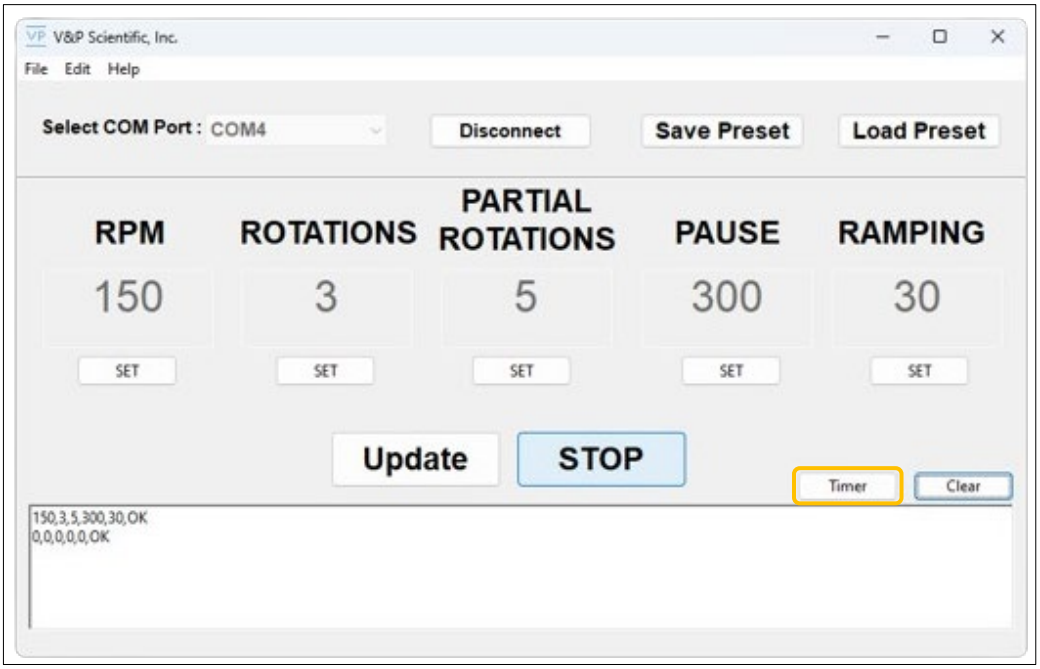




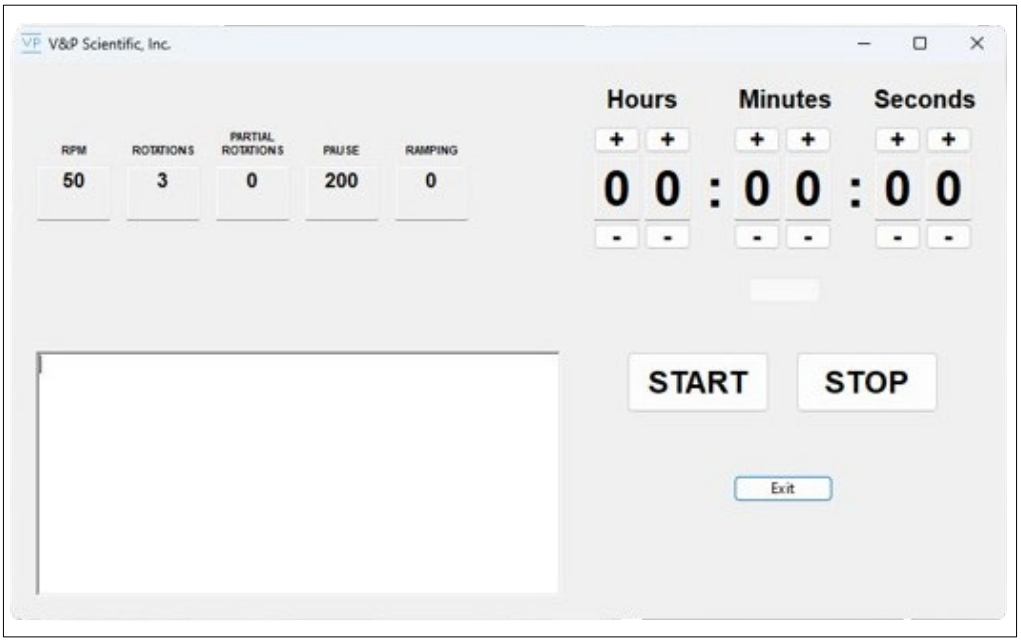
Controller Programming – Setting the Timer

1. To set a desired amount of time for the SpinVessel® to run, press **Timer.**

Opening the timer while the unit is running will stop the unit



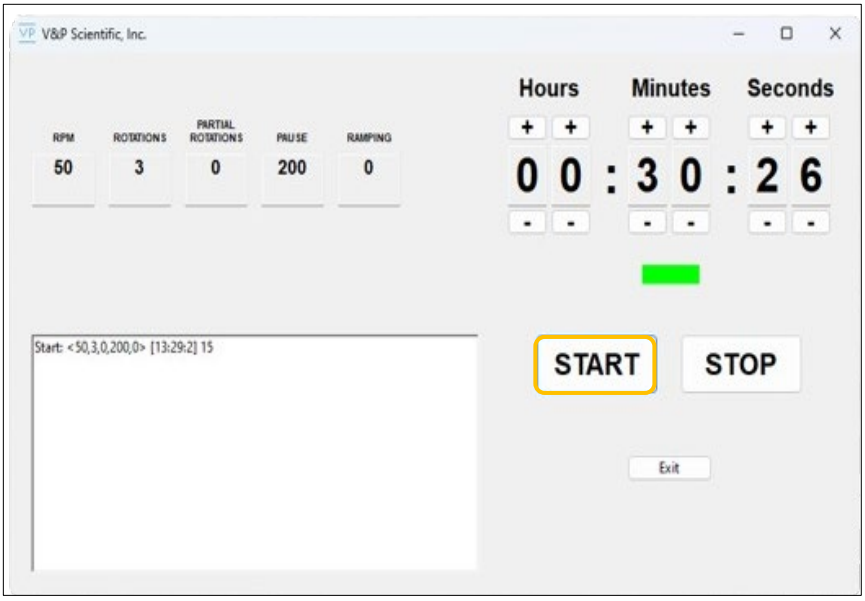
2. A timer screen will appear.



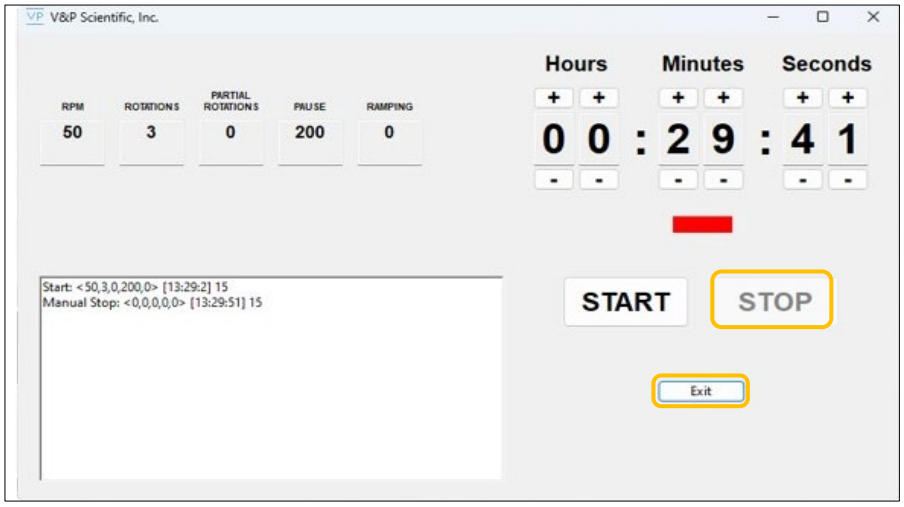
Controller Programming – Setting the Timer

3. Press the **+** or **–** to increase/decrease desired run time.
4. Press **Start** to begin the countdown.

The timer window must remain open for the timer to continue functioning



5. Press **Stop** to pause the timer.
6. Pressing **Exit** will clear and cancel the timer.



Recommended Settings

Device settings differ depending on the model of SpinVessel® being used. The chart below displays some recommended starting parameters based on model type:

Volume	RPM	Rotations	Partial	Pause	Ramping
25mL	150-500	4	5	100-200ms	0
50mL	150-500	4	5	100-200ms	0
300mL FB	150-350	3	0	200-300ms	0-30
350mL RB	100-300	3	0	200-300ms	0-30
650mL FB	75-150	3	0	200-300ms	30-50
850mL RB	75-150	3	0	200-300ms	30-50
1L FB	50-75	2	0	400-500ms	30-50
6L	20-100	2	0	500-700ms	30-50

Some models (such as the 1L) may throw solution from the vessel if started at too high an RPM, or with insufficient Ramping. We suggest starting at low RPMs with generous Ramping (50+) for volumes that pose a risk of spilling.