



COMPUTER CONTROL OF PACESETTER

Install Stirrer Control from CD by running "Setup.exe" on a computer with Windows 95, 98, 2000 or NT. After installation a shortcut (Alligator icon) to the Stirrer Control User Interface will be placed on the desktop, the Alligator icon name is "Stirrer Ctl".

PACESETTER Control Settings for Manual Operation:

1. Press the "DSP/FUN" key to change to the functions menu.
2. Press the "Up" or "Down/RESET" key to scroll through the function numbers until you reach the "F11". This function enables remote (computer) or manual control of speed adjustment.
3. Press the "DATA/ENT" key. This will change the LED display from function number to the current setting of the parameter. "000" is the appropriate parameter setting for manual control. If necessary, press either the "Down/RESET" key or "UP" key to change this setting.
4. Press the "ENT" key to save this setting. The LED will change to "End" for approximately 0.5 seconds and then change back to the function number.
5. Repeat the above steps to ensure function F10 is set to "000".
6. When finished checking function settings, press the "DSP/FUN" key and the LED display will change back to the set output frequency.
7. Press the Down or Up key to change Hertz (speed) and press the Run/Stop key to start the stirrer. See table on page 3

PACESETTER Control Settings for Computer Operation:

1. Switch on the AC power. After powering up the unit the LED will indicate a flashing "00.0".
2. Press the "DSP/FUN" key to change to the functions menu.
3. Press the "Up" or "Down/RESET" key to scroll through the function numbers until you reach the "F11". This function enables remote (computer) control of speed adjustment.
4. Press the "DATA/ENT" key. This will change the LED display from function number to the current setting of the parameter. "002" is the appropriate parameter setting for remote (computer) control with the V&P Scientific Stirrer Control. If necessary, press either the "Down/RESET" key or "UP" key to change this setting.
5. Press the "ENT" key to save this setting. The LED will change to "End" for approximately 0.5 seconds and then change back to the function number.
6. Repeat the above steps to ensure function F10 is set to "000".
7. When finished checking function settings, press the "DSP/FUN" key and the LED display will change back to the set output frequency.

8. Press the Run/Stop key to change the LED to a flashing "SP0". Now the unit is ready for remote control with the V&P Scientific Stirrer Control.

Using the Remote (computer) V&P Scientific Stirrer Control.

Check current programmable parameters. To change programmable parameters the motor must be stopped. The Stirrer Control User Interface can be used to start/stop the Stirrer, change speed control settings and schedule automatic start/stop operation. The system records actions in an event log.

Double click on the Alligator icon to start the Stirrer Control User Interface. The Stirrer Control queries out the serial communications port to see if any Stirrers are attached. This may take a minute or so. Once a response is received a Stirrer (#) Icon will be added to the "Stirrers" form indicating the Stirrer address and current speed control setting.

From the Run menu you can:

- Start - Start Stirrer at most recent speed control setting.

- Stop - Stop Stirrer and set speed control setting to 0%.

- Set Speed – Move the slider to the desired speed

Once you click the set button the stirrer will go to that speed.

From the Schedule menu you can set start times, stop times and speeds.

The table on the following page is the conversion of Hertz to revolutions/minute (RPM)

RPM	Hertz
0	0
10	1.64
20	3.28
30	4.92
40	6.56
50	8.2
60	9.84
70	11.48
80	13.12
90	14.76
100	16.4
110	18.04
120	19.68
130	21.32
140	22.96
150	24.6
160	26.24
170	27.88
180	29.52
190	31.16
200	32.8
210	34.44
220	36.08
230	37.72
240	39.36
250	41
260	42.64
270	44.28
280	45.92
290	47.56
300	49.2
310	50.84
320	52.48
330	54.12
340	55.76
350	57.4
360	59.04
365	59.86