Endurance R/C 25 Servo Controller

www.endurance-rc.com



System Setup

Plug the Servo Controller into your system. Windows will recognize the device and automatically find the correct driver. No extra drivers are needed. You can verify the device was detected by going into the device manager and expanding the Human Interface Device section. Here you will see an HID Device and a Human Interface Device appear when you connect the controller. Once detected and operational the servo controllers red status LED will show. The status LED will not show servo power status.

To view the device manager right click on 'My Computer' and chooser properties. Click on the Hardware tab and then on the Device Manager button.

Power

An external power source is required for powering the servos. Standard servos usually require a power source of 5v-6v DC. Some servos will run on 9v and above as well. The 25 Servo Controller was designed to work with any servo and subsequent power source. Power for the controller and servos are isolated. Please consult the servo manufacturer instructions for selection the proper power source for your servo.

Connect the power source to the green terminal next to the USB connector. Insert the positive line into the side of the connector marked with the '+' symbol, next to the status indicator.

Software

Sample software requires no installation; download the .exe and run. The sample program will automatically recognize the controller. If an error message displays about missing the .NET framework. Download it here and install: http://msdn.microsoft.com/netframework/

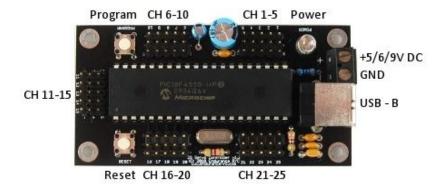
Important note about sample software and the Servo Controller

The Servo Controller was designed with flexibility in mind. Values can be sent to the servos above and below manufacturer limits. A pulse width of .5-2.5ms versus the standard 1-2ms allows for the extended travel of some servos (up to 180 degrees or more). In order to prevent damage you must design a mechanism in your software to

vo past that point!		

Connections

Refer to the following image for proper servo and power connections:



25 Servo Controller Components

Problems

If the software crashes or windows disconnects, press the reset button on the controller or un-plug and reconnect. Restart the control software if necessary.

^{*}This device has been tested on Windows XP, Vista, Windows 7