

SERVO MASTER

DESCRIPTION

The *Servo Master* is a microcontroller based servo driver that has three* modes of operation to enable R/C servo control without the use of an R/C receiver and matching transmitter.

The *Servo Master* requires only plug in of a standard R/C 4-cell battery and the servo to be controlled. Each of the three modes of operation can be sequentially selected with a momentary push button on the unit's face. An LED indicator lights when any of the three modes are active.

The unit will turn itself off after five minutes if the battery is left connected; it can be turned on again by pressing the mode button. In the off condition, with the servo connected, there will be servo quiescent current drawn from the battery.

Size of the *ServoMaster* is 1.4 x 2.0 x 0.8 inches.

The following modes of operation are provided:

- 1) A standard 1.5 millisecond (mS) pulse sets the servo at the normal transmitter neutral position. This aids in first time setup of the servo or when the servo arm position must be changed. This mode is automatically enabled when the battery is first connected.
- 2) The servo can be manually moved over the normal range by turning of the knurled control shaft on top of the *Servo Master*. The microcontroller automatically limits the servo pulse range between 1.0 and 2.0 mS even though the control can be turned further in either direction. This mode is useful for checking linkage setups for proper non-binding operation and for throttle control during engine tests. Electric modelers can use the *Servo Master* for driving their electronic speed controls when bench checking motors and propeller combinations.
- 3) The *Servo Master* will automatically and continuously cycle the servo back-and-forth through the three positions: 1.0, 1.5, and 2.0 mS at a rate of approximately one second per step. This is useful in measurement of control surface deflection with normal transmitt3er servo travel setup and to check for backlash on return to neutral.

* A fourth transit time measurement feature has been added as of 1/07/02

Price: \$22 including shipping

Send Check, M.O., or PayPal to:

Roger Carignan
39 Glen Road
Wilmington, MA 01887
978 658 9255
rogercar@gis.net

