

# J-PAM

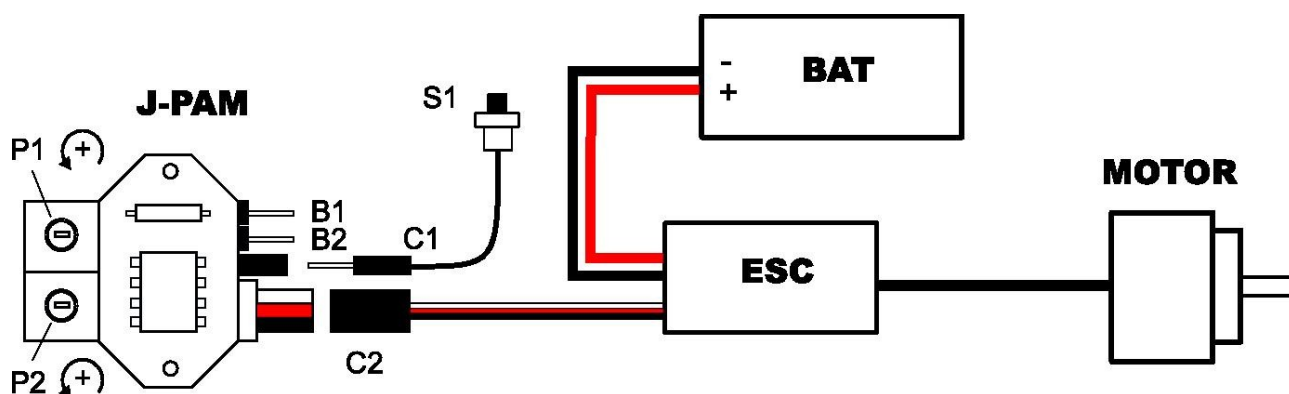
## Timer for CL

Thank you for purchase J-PAM timer specially designed by JP-Aeromodels to control electric models for control line.

### Characteristics:

- Continuous control of motor power by small potentiometer from 37 % to 100 % of the maximum power.
- Continuous control of flying time by small potentiometer from 15 seconds to 7 minutes.
- Tact switch for start and emergency stop.
- Immediate or delayed start (15 seconds delayed).
- Power controlled in uniform mode or compensated mode. In compensated mode the power is increased during the last fourth part of the flying time to compensate discharge of the battery.
- Programming mode to allow set the ESC programming.
- Indication of end of flying time (3 down/up of power 10 seconds before the end of programmed flying time).

### Connections:

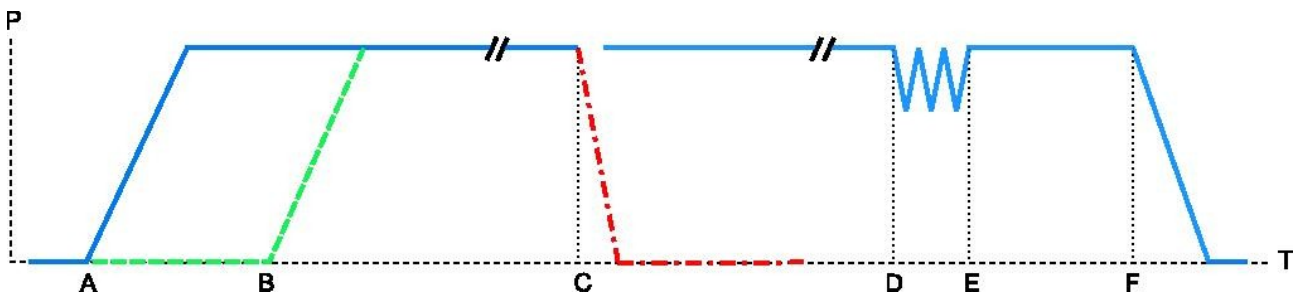


- P1 Potenciometer for programming flying time.
- P2 Potenciometer for programming motor power.
- B1 Start mode programming (OFF = immediate, ON = delayed)
- B2 Compensation programming (OFF = without compensation, ON = with compensation).
- S1 Tact switch.
- C1 Switch connector.
- C2 ESC connection.

Get sure that C2 is right connected. It must follow the wire color scheme as indicated at the timer side connector.

## Working:

Motor power / Time



- A Start – Tact switch ON (pushed > 0.7 seconds)
- B Delayed start
- C Emergency stop – Tact switch ON (pushed > 0.7 seconds)
- D End of flying time indication
- F End of flying time

A-B 15 seconds

E-F 10 seconds

## Programming:

If timer is connected to ESC (or ESC is powered on) while tact switch S1 is maintained pushed the timer will enter in programming mode. On this working mode it will be possible to program most of commercial ESCs. While tact switch S1 is pushed ESC will act as if the gas stick of the RC transmitter would be at its maximum position, releasing tact switch ESC will act as if the gas stick would be at minimum position. To exit the programming mode disconnect the timer from the ESC or switch off the ESC and connect it again to enter normal mode.

On normal mode tact switch S1 will act only if pushed for more than 0.7 seconds in order to avoid accidental starts. While working time with motor powered on an emergency stop can be made pushing tact switch S1 for more than 0.7 seconds. Once motor is completely stopped timer goes back to its initial state.

Desired programming set up must be selected before push the tact switch for start, however, potentiometer P2 will act on control motor power while motor is working on, allowing adjust motor power while holding the model before take off.

We wish you enjoy happy flights.

**JP-Aeromodels**

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