

# Aircraft Extras Inc.

## Flap Positioning Systems

available with or without

## Automatic Elevator Trim

FPS-Plus-nt



without Auto Elevator Trim

FPS-Plus



with Automatic Elevator Trim  
(eliminates stick back pressure)

FPS-Plus  
Reflex

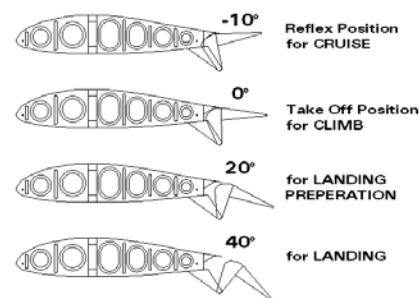


Designed for RV-10's  
and Flap Systems with Reflex

### FEATURES:

- \* FULL AUTOMATIC FLAP POSITIONING – UP TO 10 POSITIONS
- \* AUTOMATIC ELEVATOR TRIM (FPS-Plus and FPS-Plus Reflex)
- \* SENSES MOVEMENT – STOPS MOTORS IF MECH. PROBLEMS
- \* 4 MODES of OPERATION AVAILABLE, (STEP & PROPORTIONAL)
- \* COMPATIBLE WITH MOST MOTORS & INDICATORS
- \* INITIAL Set-Up is FULLY USER PROGRAMMABLE
- \* ONE BUTTON PROGRAMMING
- \* NO LIMIT SWITCHES TO INSTALL
- \* OPERATES ON +12V & +24V SYSTEMS

### REFLEX FLAP POSITION EXAMPLE



### What is the FPS-Plus?

The FPS-Plus is a full service, automatic, flap positioning system, . . Plus! In the fully automatic step position mode, a “one button touch”, commands the flaps and elevator trim to move. One touch moves the flap from programmed flap stop, to programmed flap stop. Holding the flap button down for more than 1 second commands the flaps to go to either the full up, or the full down position. All models are user programmable up to 10 flap positions. The FPS-Plus Reflex is available for the RV-10 and aircraft that have flap systems with reflex. A “one second touch up”, returns the flaps to the take-off and climb flap position.

### The “Plus” feature and Pitch Stability

Have you ever wondered what it would be like to adjust your flaps without the nose of your aircraft pitching up or down? Perfect pitch stability is a very desirable flight characteristic that many small planes do not have. After adjusting the flaps, most pilots compensate for the pitch up or down by manually cranking in a bit of elevator trim. We have all done it. With the FPS-Plus, your aircraft can perform like the larger, more expensive aircraft with good pitch stability. Your elevator trim will be automatically adjusted for every different flap setting that you command. Using the FPS-Plus allows you to lower your flaps, and your aircraft will simply slow down without a significant change to your aircraft's present glide path.

**“FINALLY! , . . No more manual tweaking on final approach to relieve your stick back pressure!”**

### Automatic Elevator Trim Advantages

"Aborted landings" "Touch & goes" and "Slow Flight", . . . are all made much easier without stick back pressure.

### SPECIFICATIONS:

The system will operate on +12Vdc or +24Vdc  
Dimensions: 3" x 6"x 1.25", Footprint: 3" x 6.75"  
Mounting: 2 holes, 0.156" dia, 5.375" apart.  
(FPS-Plus-nt, same standard features with no Auto Trim)

Maximum amperage for each servo motor, 10A.  
Weight: < 8oz.  
Will operate with existing sensors, motors & indicators for retrofits  
(FPS-Plus Reflex, for RV-10's or other aircraft with Flap Reflex)

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