

## INTAIRCO RELAY SWITCH

### IAC-433

Thank you for purchasing the Intairco Solenoid Relay Switch. This unit has been developed to be used in conjunction with Gas Turbine Engines that are required or desired to have an independent remote shut down feature. The Relay is designed for installation between the Engine Fuel Solenoid Valve and the ECU.

#### **READ ALL INSTRUCTIONS CAREFULLY BEFORE OPERATING RELAY SWITCH**

#### **IMPORTANT**

- The Relay R/C Switch should be used and installed properly in accordance with the instructions.
- All necessary Safety Precautions should be taken while operating this product.

#### **FEATURES**

- Precise ON/ OFF control
- LED shows status of relay
- One pole with normally opened and normally closed contacts.
- Unit powered by receiver current 4-6 Volts
- Simple ON and OFF point adjustment using one button automatically caters for forward or reverse receiver signal. Settings are memorized when power is turned off
- Rated relay contact current: 1 Amp
- Relay Switching Voltage > 30 Volts
- Consumption Current (maximum): 50 mAmps
- Weight: 14 grams with leads
- Size: 10mmH x 25mmL x 14mmW

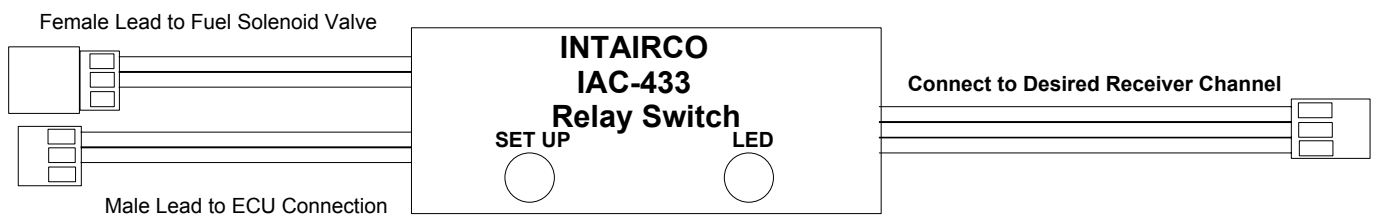
#### **SAFETY PRECAUTION**

- Keep Relay R/C Switch away from water or wet environment.

#### **CONNECTIONS**

Connect Leads as indicated in the schematic diagram below.

#### **WIRING DIRAGRAM**



**Note: This unit has been designed for use with JR, Futaba, Hitec connections in mind. If using other radio systems please check the configuration of your particular set prior to connection.**

## SET UP PROCEDURE

1. Switch Transmitter on.
2. Apply power to the Receiver.
3. Adjust the Relay R/C Switch to your transmitter with following procedures:
  - a) Press the **Set Up** button for a minimum of three (3) seconds until LED starts to flash on and off.
  - b) Set OFF position on your transmitter and press the **Set Up** button once. The LED will flash in quick succession.
  - c) Set ON position on your transmitter and press **Set Up** button once. The LED will switch on. If the LED repeatedly flashes twice and pauses, ERROR in setting up has occurred. Please check **ERROR CODE**.

Note: If ERROR occurs, reset the Relay R/C Switch by removing power from the unit, wait for 3 seconds and turn on Receiver and Transmitter again. Repeat Set Up procedure.

If no ERROR occurs, set up is complete and Relay R/C Switch is ready for normal operation.

These settings are memorized in the Relay R/C Switch even if power is disconnected. The Set Up procedure has to be run again if transmitter settings for the channel being used for the Relay Switch are changed.

### ERROR CODE

Below are some possible causes for ERROR when setting up:

- Receiver signal pulse falls outside normal operating range (between 0.8millisecond and 2.2 milliseconds)
- The difference between OFF position and ON position is too small. Set wider ATV settings between ON and OFF positions for the channel selected.
- Receiver input connected to the wrong channel on the receiver. Ensure that the receiver input connector is plugged into the correct channel.

### IMPORTANT NOTES

If this relay switch is used in conjunction with JetCat Turbines with Version 4 or later ECUs featuring inbuilt Failsafe, **DO NOT** connect this unit in parallel to the throttle channel (i.e. Y lead or mix to throttle trim). Please use a separate channel on your radio system for the independent remote shut down relay switch.

Failure to adhere to this will result in automatic engine shut down if failsafe occurs regardless of the "time out" failsafe setting programmed into the ECU.

When the LED is on the relay is in its "On State", i.e. the fuel solenoid valve will be activated by the ECU, when the LED is off the relay is in its "Off State", no power will be delivered to the Fuel Solenoid valve.

### WARRANTY

This Relay R/C Switch is warranted against faults in material and manufacture for a period of 90 days from the date of purchase.

This warranty does not extend to damages resulting from misuse, abuse, neglect, accidental damage or any alteration or modification made to the product. In no case shall our warranty liability exceed the original cost of this product.

The owner is responsible for any transportation and insurance costs if the product has to be return for repair.

### DISCLAIMER

As **INTAIRCO** has no control over the installation or use of this product, we do not accept any liability for any damages to any equipment, properties or personal injuries resulting from using this product. By the act of installation and operating this Relay Switch the user accepts all resulting liability.