AE FUEL GUARDIAN

AE FUEL GUARDIAN LOW FUEL ANNUNCIATION SYSTEM

This system gets your attention before you have to switch tanks. When the annunciator light flashes, you will know your precise fuel quantity and also the time to engine shut-down for that tank. HOW DOES IT WORK? - The optical fuel sensor is a non-contact sensor mounted in a single hole in the fuel tank. It operates by bouncing a beam of light into the sensors lens. If it is reflected back, it is dissipated into the liquid media. The sensor output is pulled down, or activated. The electronics constantly monitors the sensor outputs of both tanks. When a low fuel level is detected, the appropriate light starts to blink, getting the pilot’s attention immediately. After the pilot sees the alarm, he can press the acknowledge button. This action turns the light on solid (continuous) denoting a low fuel quantity. This function of the annunciator eliminates the distracting flashing action of the lights for the pilot, yet he can still see that he has a low fuel indication. The AE Fuel Guardian also has an audio output that can be wired into the aircraft intercom or audio system if desired. The audio beep is only present when the annunciator lights are flashing.

The AE Fuel Guardian annunciator lights can also be wired into the aircraft dimmer bus if desired for night flight. This system is 100% solid state and is compatible with 12VDC or 24VDC electrical systems. The installer sets the sensors to provide low fuel warning at whatever level is desired. System includes (2) annunciator panel lights, (2) optical sensors, (1) push button, Sensor drive and annunciator electronics enclosure, wiring, and lettering decals. For Experimental aircraft only.

Kit With One Sensor ............................ P/N 10-01811 .......... $159.00
Kit With Two Sensor ............................ P/N 10-00389 .......... $210.00

AE AG6 ANNUNCIATOR GAUGE METER

The AE AG6 Annunciator Gauge Meter. Will display many different aircraft warnings. All devices feature user programmable alarms. Utilizes a push-button LCD display that is backlit with a 3 color LED. All functions are fully programmable by the user. The push-button/display can be used for programming, acknowledging the alarms, and paging thru up to 16 different screens or “annunciator points”. Can automatically scan thru each screen or it can be done manually using the push-button. The pilot has the ability to mask or unmask annoyance alarms. **NOTE:** Input devices not included. It is up to the user to provide input devices such as fuel senders, shunts, oil level sensors and input switches to drive the AG6 Display & Push Button

P/N 10-04180 ................................. $169.95

AE LOW OIL LEVEL SENSOR

Originally designed for small Lycoming engines, but can be utilized on several other engine types as well. Utilizes a 1/2” NPT fitting so that it can be inserted directly into the oil pan of most small Lycoming Engines. The 5/8” x 5/8” square bolt head of this sensor has been drilled (0.08” dia.) to accept a safety wire. Material: Stainless Steel construction Switch: Normally open when normal oil level, 30° @ 0.35Amax. Temperature: -20°F to +280°F

You can utilize the “flashing panel light”, a relay, or utilize your own panel indicator. The maximum current draw for any light or relay is 0.2Acd. The light can be mounted in the instrument panel using a 0.249” to 0.254” diameter mounting hole. The light supplied will operate from a +12Vdc system. To make this system +24V compatible you will need to add a 12V zener diode in series with our flashing panel light.

AE Low Oil Level Sensor (sensor ONLY) .... P/N 10-01812 ............. $135.75
AE Low Oil Level Sensor with blinking red LED (LED blinks when oil level is low) ............................ P/N 10-03891 .......... $150.95

AUXILIARY FUEL PUMP RELAY

The AFPR is a “Smart” Auxiliary Fuel Pump Relay. This device allows the pilot to flip on/off and quickly drain the auxiliary fuel tank without over stressing the auxiliary fuel pump. The AFPR will pump down the auxiliary fuel tank, and then automatically shut the fuel pump off when no fuel is detected. The AFPR includes a very reliable optical fuel sensor that can be easily installed in the auxiliary fuel tank or in the fuel line. The AFPR can be operated in one of four modes of operation. The AFPR also has an output that can be used for a light to indicate when the fuel pump-down has been completed.

Input Power: 12Vdc or 24Vdc, 0.1A max.  Enclosure: 3.5” x 2.25” x 1.25” (89mm x 57 x 32mm)  Fuel Sensor Mounting Hole: 0.475” (12mm)

P/N 10-04343 ................................. $129.95

AE AIRSPEED SWITCH & RELAY BOARD

**RELAY BOARD USE:** Control your Flap & Elevator Trim motors. This board allows you to use any inexpensive switch [Single Pole, Double Throw, (ON)-OFF-(ON), Spring Loaded, 3 Position] to control your flap and elevator trim motors. You can series as many switches as you desire control your flap & elevator trim motors. Free connection diagrams for relay boards and airspeed switch for several typical systems. **AIRSPEED RELAY USE:** Flap Deployment Protection at High Airspeeds when our relay board is used with our airspeed switch, you can protect your flaps from being actuated in the downward direction when your airspeed is too high (above the white arc). We provide the end user with easy connection diagrams for several different systems. Automatic Speed Adjust for Elevator Trim Motors Many have complained about the fast adjustment speed of elevator trim motors at high airspeeds. When our relay board is used with our airspeed switch, it eliminates this problem. You will have two speeds, fast for slower airspeeds, and slower for high airspeeds. The slower speed is adjusted by supplying this relay board a lower motor drive voltage. **RELAY BOARD SPECIFICATIONS** Each board includes two independent, Single Pole, Double Throw Relays. Relay contacts are protected against inductive sparking generated from switching inductive loads such as motors. For use on 12Vdc systems. Switch currents up to 10 Amps. Boards are stackable to 3 levels high for saving panel space. Mounting hardware included

AE Relay Board One ........................................... P/N 10-01814 .......... $45.65
AE Relay Board Two Staked ............................ P/N 10-01815 .......... $79.65
AE Relay Board Three Staked ............................ P/N 10-01816 .......... $64.65
AE Airspeed Switch & Board ............................ P/N 10-01817 .......... $93.00

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Price Subject to Change Without Notice