

Header Tank Auto Fill Relay Model: HTAF2



- * SMART OPERATION
- * AUTOMATIC FUEL PUMP TURN ON and SHUTOFF
- * EASY INSTALLATION
- * USER SELECTABLE PUMP TIME PERIOD (0 to 10 MINUTES)
- * OPERATION: MANUAL, ONE or TWO SENSOR MODES
- * NEW DESIGN MINIMIZES WIRING
- * RELIABLE OPTICAL FUEL SENSORS
- * PUMP-UP COMPLETED SIGNAL
- * SLOSHING FUEL WILL NOT AFFECT OPERATION
- * HEADER TANK LOW FUEL INDICATION (WITH 1 or 2 SENSORS)

DESCRIPTION

The HTAF2 is a “Smart” Header Tank Fuel Pump Relay. This device automatically keeps the aircraft header tank full without over stressing your fuel pump. It can be operated manually, or with one or two fuel sensor(s) mounted in the header tank. When low fuel is detected in the Header Fuel Tank, the HTAF2 will pump up the header tank and then shut off. If the HTAF2 is operated manually or with one sensor, the fuel pump will shut down when a user selected time period had elapsed. If the HTAF2 is operated with two sensors, the fuel pump will start when the fuel level is below the “start” sensor and then shut off when the fuel level reaches the “full” sensor.

The fuel sensor used for the HTAF2 is a very reliable optical fuel level sensor (optional) that can be easily installed in the header fuel tank. If the user is not able to install a fuel sensor in the header fuel tank, the HTAF2 can be wired to a normally open push button switch to activate the timed pumping.

The unit also has a relay output that can be used for a light to indicate when the fuel in the header tank is low. The light will flash indicating when there are any system malfunctions detected. This detection of low fuel is also damped so that it does not falsely indicate low fuel in the case of sloshing fuel. The system can be powered by +12V or +24V electrical systems.

EASY INSTALLATION

The HTAF2 was designed to mount near the fuel pump or header fuel tank. This eliminates running extra wires thru the wing or fuselage. This mounting method also allows the installer to use a shorter run for the fuel level sensor wiring and not use additional wiring through the wing. The HTAF2 can also be installed in the fuselage if limited space is a factor.

SELECTABLE PUMPING TIMES

The user may select a pumping time period between 0 and 10 minutes if operated in the manual mode or the one the sensor mode.

SPECIFICATIONS:

Input Power: 12 to 14Vdc or (24 to 28Vdc), 0.1A max.
Enclosure: 3.5" x 2.25 x 1.25" (89mm x 57 x 32mm)
Fuel Sensor Mounting: 1/4NPT
Weight: 3.0oz. (93g), 3.3oz. (103g) with sensor

Relay Contact Outputs: 10A max.
Models: HTAF2-NS (without sensor)
HTAF2-1S (includes one sensor)
HTAF2-2S (includes two sensors)