



WHITE PAPER



**Spectrum  
2335 Series Pressure Switch**

Updated: June 2007

**The Spectrum 2335 Series Pressure Switch** has been designed specifically for use in aircraft fuel, air, oil and other systems which require accurate sensing of pressure in ranges from 4 to 400 p.s.i.g. while retaining rugged durability for enhanced MTBF rates.

The unit is constructed of welded stainless steel, as are the diaphragm sensing element and coil spring.

A MIL-S-8805 snap action electrical microswitch provides the signal (open/closed) via the customer specified electrical connector.

All working parts are assembled, cycled in excess of 1,000 cycles and inspected 100% to verify proper actuation.

The stainless steel diaphragm design has been cycled in excess of 8 million pressure cycles with no fatigue or flaws noted.

### **Assembly Features, 2335 Series**

All metal components passivated (QQ-P-35) or anodized (MIL-A-8625) for long life and corrosion resistance

All weld joints visually inspected 100% and verified by pressure test

Stainless steel wetted parts compatible with all aircraft fuels, oil, air

All welded sub-assemblies cycled minimum 1,000 cycles for 100% reliability

All 2335 Series switches include qualification approval for FAA flame test (2000°, 15 minutes, no structural failure)

Microswitches can be provided with either silver or gold contacts for high/low amperage electrical requirements *(continued)*



**Spectrum**  
ASSOCIATES, INC.

2335 Series White Papers

Hermetically sealed versions available

Vent ports "breathe" via press-fit stainless steel filters to prevent foreign matter contamination; verifying capacity tested 100% prior to shipment

All units inspected 100% visually and to applicable ATP

Flight proven - over 10 million hours with the engine/airframe applications  
- application list available upon request

Qualification data readily available

Reliable lead time

For more information:

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