

MODEL AS-LLE Single-Point*

AIRCRAFT QUALIFIED LIQUID LEVEL ELEMENT



AS-LLE Liquid Level Element

FCI Liquid Level Elements

FCI liquid level elements have established an unmatched record of superior performance and reliability in the toughest aerospace, military and marine applications. FCI's unique Thermal Dispersion Technology (TDT) provides no moving part dependability and repeatability for monitoring the presence or absence of liquid at a critical level point in reservoirs.

AS-LLE Liquid Level Element Applications

- Remote Oil Level Sensor (ROLS)
- Replacement of mechanical and sight level gauges
- Hydraulic reservoirs
- Fuel level detection
- Collection sumps
- Coolant reservoirs

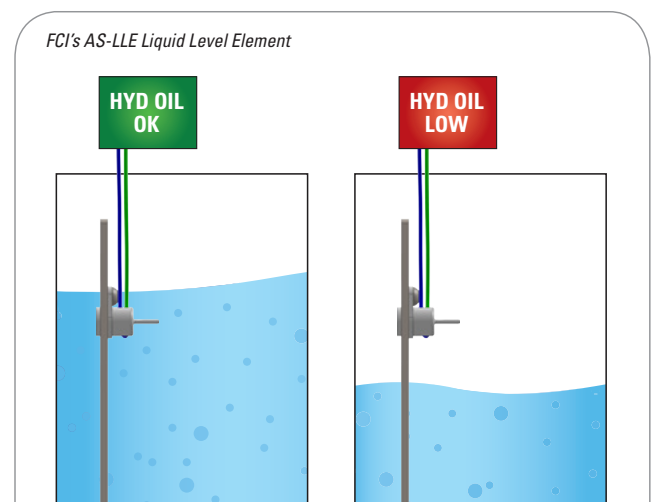
FCI's Liquid Level Element Features

- No moving parts, no routine maintenance
- Wet/dry or wet/wet detection
- Simple installation inside a reservoir or vessel
- Extreme temperature, pressure, and vibration service
- Corrosion, abrasion, and fouling resistant
- Compact, lightweight, miniature size
- Optional temperature measurement

Model AS-LLE Liquid Level Elements

The Model AS-LLE single-point is a miniaturized, fully sealed and submersible point level sensor for use in liquid fluid applications on commercial and military aircraft, both fixed wing or rotary. It is designed for use in tanks, reservoirs, gearboxes, and other vessels containing water, oil, hydraulic fluids, coolants, and more. It has been the aerospace industry's preferred solution for remote oil level sensing (ROLS) applications for decades.

Unlike conventional sensors, which are mounted externally and inserted through the tank or vessel into the fluid, the AS-LLE is designed for installation within the vessel. It does not require any penetration openings in the tank to save installation cost, maintain tank integrity, and decrease the space needed around the tank. The AS-LLE sensor body is constructed of titanium which is extremely rugged and corrosion resistant, yet lightweight. The sensor weighs just 1.6 ounces [45 grams]. It is provided with two flying leads for electrical connections within the tank or can be fed through the top of the tank. The sensor is calibrated in your media at FCI's factory, then read using FCI's proprietary technique.



Whether your fluid is oil, hydraulic fluid, coolant, water, fuel or any other liquid, the AS-LLE provides the most dependable and lowest total installed cost solution for your application.

www.FCIAerospace.com

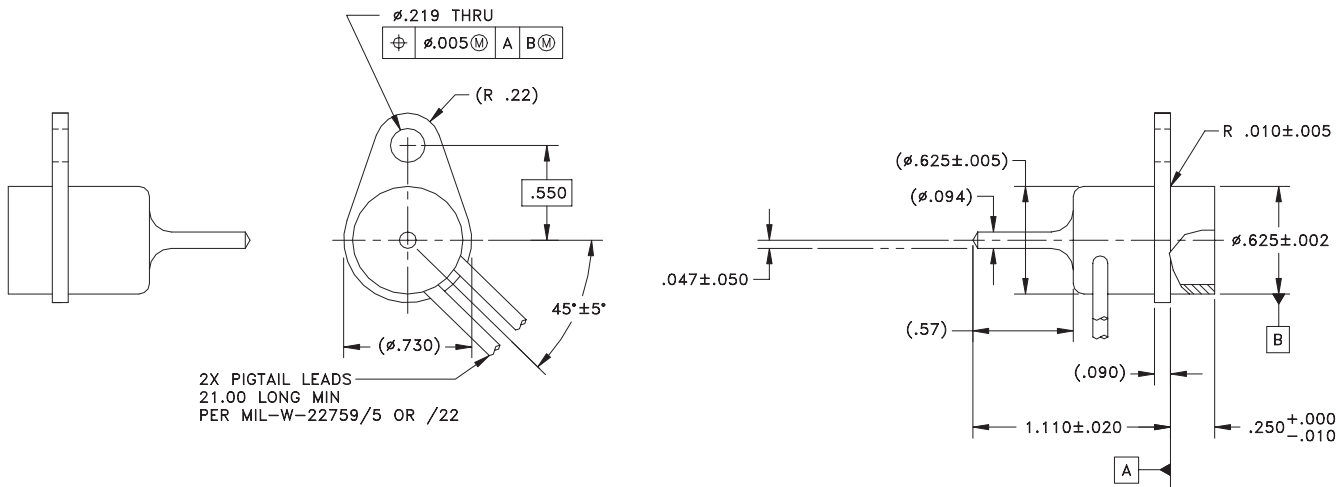
* To detect multiple point levels from a single sensor, AS-LLE is also available in a multipoint configuration; please refer to Model AS-LLE Multipoint data sheet

Model AS-LLE Liquid Level Element General Specifications

- **Service:** Liquid level point detection
- **Material of Construction:** Titanium Ti 6AL-4V, per AMS 4928
- **Process Connection:** Sensor body has integrated extension panel with 0.219 inch hole for attachment to in-tank mounted bracket
- **Electrical Connection:** potted, flying leads
- **Excitation Current:** 75 mA
ON for 30 seconds
OFF for 120 seconds
- **Temperature:** -67 °F to 400 °F [-55 °C to 205 °C]

- **Pressure**
Operating: To 3000 psig [207 bar(g)]
Proof: 6000 psig (414 bar(g))
- **Weight:** 1.6 oz [45g] maximum
- **Reliability (MTBF):** 500,000 hours
- **Qualifications:**
RTCA DO-160C
Fluid compatibility, temperature cycling, vibration, endurance test

Single Point Liquid Level Element



Visit FCI online at www.FCIAerospace.com | FCI is ISO 9001 and AS9100 Certified

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