



FCI Aerospace AS9100-Qualified Sensors and Switches

San Marcos, CA — Visitors to the Helicopter Association International (HAI) [HELI-EXPO 2020](#) who need to monitor flow, level, temperature and pressure will want to stop by Booth 3811 to see the latest demonstration of high-performance, high-reliability sensors and switches available from [FCI Aerospace](#).

FCI Aerospace is a world leading manufacturer of built-to-specification flow, level, temperature and pressure sensors. Whether rotary or fixed-wing aircraft, FCI Aerospace has designed and manufactured qualified, flight-worthy sensor system instrumentation to meet a broad range of applications. Manufacturers and sub-system suppliers of commercial, business, defense and military aircraft throughout the world have specified and installed FCI sensors with confidence for over 30 years.



For example, FCI's AS-FS Series flow switches utilize no moving parts and ultra-reliable thermal dispersion flow measurement technology to detect a flow rate above or below a predetermined set-point at the sensing location. They are applied to signal low flow or high flow alarm conditions in air or liquid fluid flows throughout most airborne fluid systems.

FCI offers two versions of its AF-FS Series, one for air flow and one for liquid flow applications. They are rugged, all-welded, 316 stainless steel, but are also compact and lightweight. AS-FS flow switches are directly installed into piping or ducting on commercial and military aircraft, as well as spacecraft, vehicles and marine applications.

The AS-LLE liquid level sensor element from FCI Aerospace utilizes single or multiple RTDs mounted in thermowells for direct installation into tanks, reservoirs, sumps and gearboxes on commercial and military aircraft, spacecraft, vehicles and marine applications.

This liquid level sensor is also available for service as single point and multipoint liquid level and interface elements that connect to FCI or customer provided electronics to indicate presence or absence of liquid level or interface at the sensing point(s).

For temperature monitoring, the FCI AS-TE is a compact, light-weight, precision temperature sensor for direct installation into piping and ducting on commercial and military fixed wing or rotary aircraft as well as spacecraft, vehicles and shipboard/marine vessels.

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These temperature sensing elements utilize high accuracy, highly repeatable RTD sensors (resistance temperature detectors) to provide a linear change in resistance directly proportional to temperature changes in the liquid or gas process. They are packaged in all-welded, sealed thermowells for superior service life. The AS-TE can be specified with threaded or flanged connections and wiring connectors to match specific installation needs.

FCI Aerospace designs and manufactures absolute pressure transducers and gauge switches, which include a hermetically sealed sensing element and integral electronics that provide indication over a wide range of pressure. These gauge switches measure pressure above or below a predetermined threshold at the sensing location, and the absolute transducer provides a continuous voltage output reflective of various pressure conditions. The pressure element is directly installed into pipes, ducts, tanks, reservoirs, sumps and gearboxes on commercial and military aircraft, spacecraft, vehicles and marine applications.

In addition to AS9100 certification, FCI Aerospace is also ISO 9001 certified. FCI's quality program and policies are continuously reviewed and audited by all major airframe manufacturers and contractors, enabling FCI to provide proposals directly to system suppliers and prime contractors, alike.

FCI Aerospace is a business unit of Fluid Components International. The FCI Aerospace Division is a world leading manufacturer of built-to-specification flow, level, temperature and pressure sensors designed for mission-critical performance and reliability. Whether military or civilian fixed wing or rotary aircraft, FCI Aerospace has for nearly 30 years designed and manufactured qualified, flight-worthy sensor systems to meet a broad range of military and commercial applications.