

Flow, Level, Temperature and Pressure Measurement for High-Reliability, Mission-Critical Applications

New Applications Guide for Aerospace, Aviation, Marine, Military and Space



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Design engineers responsible for developing commercial and military aircraft, as well as space, marine and ground vehicles will find the new 2008 Applications Guide from FCI Aerospace provides detailed application and specification information on its flow, level, temperature and pressure instruments, which

are manufactured in an AS9100 and ISO 9001:2000 certified environment.

With over 40 years of instrumentation experience, FCI provides sensors that are found in a wide range of high-reliability, mission-critical aviation, aerospace, naval and other military applications. Major applications for FCI sensors include environmental cooling systems, engine and fuel controls, gearbox and avionics cooling, electrical generators, auxiliary power units and more.

Flow. FCI's flow sensors and switches have established an unmatched record of performance and reliability in the toughest applications. Typical uses include air flow switches and transmitters, coolant and hydraulic fluid switches and transmitters, and fuel flow switches and transmitters.

Liquid Level. FCI's liquid level sensors and switches are designed for service in the most harsh aerospace, military and marine environments. They are found in applications such as remote oil level sensors (ROLS), potable water multi-point level and control, and hydraulic oil reservoirs.

Temperature. Packaged for qualified commercial and military service, FCI's temperature sensors measure temperatures from -65°F to 800°F (-54°C to 430°C) and can survive in temperatures from -85°F to $1,000^{\circ}\text{F}$ (-65°C to 540°C). Applications include service in hydraulic and coolant fluids, environmental cooling systems, cabin air temperature control, PACK Air and Bleed Air, and more.

Pressure. FCI's aerospace pressure sensors are piezoresistive strain-gauge type sensors fabricated with advanced silicon processing techniques common in the

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semiconductor industry. Typical applications include hydraulics, ECS, coolant systems, lubrication and fuel systems.

FCI's proven thermal dispersion sensing technology provides reliable flow and liquid level measurement in extreme temperature, high vibration, and dirty environments. Thermal dispersion technology features direct mass flow measurement with a no-moving parts design, which is inherently reliable and features built-in temperature compensation. It is simple to install, requires virtually no maintenance and offers long-life for high total installed value.

FCI calibrates its own air flow and liquid level instruments. It operates one of the industry's leading flow analysis and calibration facilities. All laboratory equipment is National Institute of Standards (NIST) traceable, as well as ISO 9001:2000 and AS9100 certified. The laboratory also meets MIL-STD-45662A and ANSI/NCSSL-Z-540 requirements. The company's laboratory has supported a large number of leading-edge development programs, including flight test sensors for the F22 Raptor Fighter, the V-22 Osprey Helicopter, the Global Express Program and others.

Fluid Components International is a global company committed to meeting the needs of its customers through innovative solutions to the most challenging requirements for sensing, measuring and controlling flow and level of air, gases and liquids.

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