



FCI FLUID COMPONENTS
INTERNATIONAL LLC

FCI AS-FT Flow Transmitter For Mission-Critical Aircraft Monitoring Applications

Ideal for Monitoring Fuel, Hydraulics, Bleed Air, Coolant, ECS, PACK, Lubrication



San Marcos, CA — The [AS-FT Flow Transmitter](#) from [FCI Aerospace](#) features a rugged, highly reliable thermal dispersion technology sensor design that is ideal for mission-critical air, gas and fluid monitoring systems on commercial and military aircraft.

FCI Aerospace's AS-FT flow transmitters meet the demand for full qualification compliance with the performance and measurement capability necessary to serve a wide variety of aircraft air/gas/fluid flow applications. They feature a 100:1 turndown and are suitable for systems that support the monitoring of fuel, hydraulics, bleed air, liquid coolant, environmental control systems, pneumatic air cycle kits, lubrication and more.

Highly versatile, the FCI AS-FT flow transmitters measure air from 0.25 SFPS to 1000 SFPS [0,07 NMPS to 305 NMPS]. Measurement of fuel, hydraulic fluid or coolant is available from 0.01 SFPS to 10 SFPS [0,003 MPS to 3 MPS]. The measurement range for water and ethylene glycol (EGW) is from 0.01 SFPS to 5 SFPS [0,003 MPS to 1,5 MPS]. Accuracy for measurement is $\pm 2\%$ of full scale; higher accuracy optionally available. Temperature accuracy is $\pm 1\text{ }^{\circ}\text{F}$ [$\pm 1\text{ }^{\circ}\text{C}$] over the specified range.

With their rugged design, the FCI AS-FT flow transmitters operate from $-40\text{ }^{\circ}\text{F}$ to $250\text{ }^{\circ}\text{F}$ [$-40\text{ }^{\circ}\text{C}$ to $121\text{ }^{\circ}\text{C}$]. They are proof pressure tested up to 2000 psig [138 bar (g)] or greater as required by application. Certifications include: MIL-STD-810, MIL-STD-461 and RTCA / DO-160.

FCI's thermal dispersion technology (TDT) directly measures mass flow of air, gases, water or liquids, which saves cost, installation space, and weight over alternatives that require the addition of pressure and temperature sensors, and a flow computer to infer mass flow. FCI flow sensors are also inherently dual-function, and temperature measurement of the fluid is readily available from the same sensor element.

FCI's world-class, fully NIST traceable flow calibration laboratories test and calibrate all FCI products to ensure instrument accuracy with the customers' actual fluid and process conditions. FCI's calibration laboratories are ISO9001:2008 certified and AS9100 compliant.

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The laboratories also meet MIL-STD-45662A and ANSI/NCSSL-Z-540 requirements. The company's advanced technologies also include mechanical design, advanced materials, metallurgy, electronics, communications and more.

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.

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