

New FCI Video Explains Thermal Dispersion Sensing Solution Advantages For Industrial Processes and Plants

Flow, Level and Temperature Innovators Since 1964



San Marcos, CA — A new [Capabilities Video](#) explains how [Fluid Components International \(FCI\)](#) solves flow and level measurement problems for industrial process and plant applications around the globe with advanced thermal dispersion technology sensors and instrumentation.

Knowing the fluid levels and the flow rates at which liquids and gases are traveling through pipes are measurements critical to industry. FCI instrumentation combines precision thermal sensors with ruggedized electronics designed to provide accurate, highly repeatable flow and level measurement solutions for a wide variety of industrial process applications.

When FCI's thermal dispersion sensing instruments are put to work, they operate around the clock to ensure safe and efficient process and plant operations. They minimize raw materials usage to protect global resources, while conserving energy and reducing the impact that processes might have on the environment.

For over five decades FCI has led the world in thermal dispersion technology. The company has invested the time and the resources to optimize, continuously improve and perfect this technology. It provides flow and level measurement solutions for an ever-changing mix of unique process applications. FCI solutions are designed, verified and tested to meet or exceed customer requirements and the world's most demanding global safety and quality standards.

FCI's products are today requested by name in many of the world's most demanding industries. Tens-of-thousands of FCI instruments are installed and operating successfully around the globe in diverse industries: aerospace, chemicals, electronics, electric power generation, food/beverage, mining and metals, oil/gas, pulp/paper, pharmaceutical and more.

FCI's newest air/gas flow meters combine the most feature- and function- rich electronics with the industry's most advanced flow sensors to achieve a truly state-of-the-science flow metering solution. They combine measurement accuracy with a rugged design that is compatible with caustic, corrosive, humid and high temperature environments. They install easily, require virtually no maintenance and offer long-life.

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FCI flow switches are ideal for a wide range of point-level process applications, featuring an advanced, no-moving parts thermal dispersion flow sensor. Their versatile design also allows them to measure flow or level or temperature. The company's NuTec[®] flow switch utilizes a unique non-contacting flow element that separates the sensor from the process media. FCI flow switches are ideal for interface monitoring in mixed density media, such as foams, emulsion layers and slurries.

FCI's custom designed flow and level sensors for OEM applications are ideal for use in a wide range of industrial equipment where monitoring, high/low alarming, metering, switching and totalizing are required. Ideal for gas or liquid applications, these devices feature advanced micro-electronics for direct mass flow measurement in a rugged, no-moving parts design that offers exceptionally high reliability and long-life.

Flow conditioners developed by FCI's Vortab Company provide a low-pressure loss solution to correcting flow profile irregularities that affect the accuracy of flow instrumentation. In today's crowded plants, elbows, valves, blowers and other devices in the pipeline can disrupt flowing media, which reduces measurement accuracy. Vortab[®] flow conditioners eliminate these flow disturbances to ensure accurate measurement.

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 over 20 years designed and manufactured qualified, flight-worthy sensor systems to meet a broad range of military and commercial applications.

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. The laboratories also meet MIL-STD-45662A and ANSI/NCSL-Z-540 requirements. The company's advanced technologies also include mechanical design, advanced materials, metallurgy, electronics, communications and more. 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, level and temperature of air, gases, and liquids.

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