

FCI FLUID COMPONENTS INTERNATIONAL LLC



Readers' Choice Awards, which represents a collective opinion of hundreds of process automation professionals. In many of the world's most demanding environments for flow instrumentation.

FCI's products are recognised by name. They are recognised for their precision, measurement accuracy and repeatability in harsh conditions, where their high performance ensures both end-product quality and operational safety. The company offers a broad range of application solutions from off-the-shelf devices to custom-engineered systems.

FCI's flow meters feature advanced thermal dispersion mass flow sensors. They combine precision flow measurement accuracy with a rugged design that is compatible with caustic, corrosive, humid and high temperature environments. They are highly reliable, easy to install, require virtually no maintenance and are designed for long life.

FCI's FLT93 Series FlexSwitch™ is the process industry's most advanced heavy-duty thermal dispersion technology flow and level switch in the world.

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.

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.



Ultrasonic Flowmeters in the Aircraft & Aerospace Industries

Katronic clamp-on ultrasonic flow meters have been at the forefront of the development of new systems for the aircraft industry and are also suitable for regular maintenance and inspection activities.

The non-invasive and non-intrusive flow measurement of liquids is a frequent requirement for research and development but also regular maintenance and inspection activities within the aircraft and aerospace industries.

Due to the special properties of the used liquids and the difficult to access measurement points, clamp-on ultrasonic flow meters are often the best possible solution.

Several major European companies have been using the KATflow range of ultrasonic clamp-on flow meters for the testing of aircraft hydraulic systems, including landing gears.

The hydraulic oils used in these systems are viscous and corrosive and therefore difficult to measure with conventional meters. Attempts to meter aircraft hydraulics using turbine flow meters have been unsuccessful.

For this reason our customers have decided to turn to our clamp-on ultrasonic flow meters as the best available alternative. The main advantages of our clamp-on flow meters are their lack of inertia, ease of installation and the fact that they do not cause a pressure drop within the pipes.

In order to meet the customers' requirement for instantly displayed flow readings, we have developed a fast response measurement mode that allows the flow meter to capture and output as much data as possible in a short period of time.

This resulted in a new range of clamp-on ultrasonic flow meters achieving a measurement and acquisition rate of down to 70 ms.

Our supplied clamp-on ultrasonic flow meters have proven to operate to full expectation making them a new key part of the testing procedures of aircrafts.

Advantages of clamp-on ultrasonic flow meters:

- Sensors can be installed on different parts of hydraulic systems
- No need to open hydraulic systems for measurement
- Easy to install even at difficult-to-access points
- Capable of measuring highly viscous liquids
- Short response time



Reference customers:

-Eaton Aerospace -BAE Systems -GE Aviation -Airbus -EADS

AMS News

After a slow start in January and February, March proved to be an exceptional month. Several large orders for Beamex from some states proved that the hard work our sales people have put in paid off.

We have found that some customers wanting training courses on specific products and we are endeavouring to organise these during the year. Product Knowledge Workshops (PKW) are intended to give customers the knowledge to properly work with the equipment. Specific courses can be run at the customer premises or alternatively a general course can be run at one of the main cities. We will keep our customers informed of dates and locations in the general areas.

ACIconnect was supposed to run in April, however this has been delayed till August. AMS as a Gold Sponsor will be exhibiting their full range of equipment and a presentation by Jens Varghese of optek will surely attract a good audience.



optek releases the new **C8000 Universal Converter**.

The Control 8000 is available in various configurations to meet the exact needs of your process.

The Control 8000 provides optical density or forward scatter turbidity measurements in the ultraviolet (UV), visible (VIS), and near infrared (NIR) ranges. In addition to optical sensors, the C8000 monitors up to two pH sensors and two conductivity sensors with integrated temperature measurements. One converter assures easy operation with an intuitive user interface in a compact package.