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ST50 Flow Meter
For Air, Compressed Air & Nitrogen Gas Measurement

Designed with a thermal flow sensing element combined with an optimized feature set, the **ST50 Flowmeter** from Fluid Components International (FCI) provides best-in-class value to redefine the flow measurement of air, compressed air and nitrogen gas in many common applications.

Now process, instrument and plant engineers no longer have to trade-off between accuracy, installation, maintenance, and economy. The **ST50** is a no moving parts design flowmeter, meeting the challenge when compared to orifice plates, differential pressure, vortex shedding and other thermal instruments. It is ideal for use in municipal and industrial wastewater aeration control systems, industrial and commercial blower and dryer input/out air flow controls, industrial manufacturing burner and furnace air flow control, HVAC duct/damper control, and aeration flow control in lakes, ponds or aquaculture.

The **ST50** is an insertion-type flowmeter designed with a fully temperature-compensated thermal flow sensing element constructed with precision, lithography etched platinum RTDs embedded in patented equal-mass miniature diameter thermowells. Combining microelectronics with precise calibration, the **ST50** achieves superior accuracy, fast response and virtually maintenance-free operation with negligible pressure drop.

ST50 Air/Gas Flow Meter Goes Wireless With IR Link For PDA Communication

Utilizing a wireless IR technology built-in to the **ST50** flow meter and a standard, low cost PDA, field technicians can obtain measurements, make setting changes and read trouble-shooting codes without ever having to open the instrument. This feature is ideal in applications for flow meters that are installed in hard-to-reach locations or where opening the instrument is inconvenient or labor intensive.

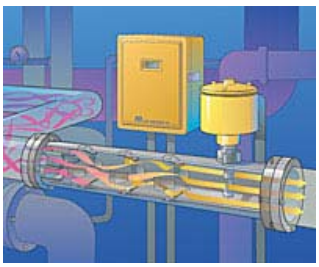
The wireless IR link eliminates the need for expensive proprietary programmers, which simplifies maintenance and reduces the overall cost of use. FCI's wireless IR sensing capability is included in all **ST50** flow meters with a digital display readout. To complete the system, we also supply the easy-to-use user interface software for downloading into any Palm-OS based PDA.

VORTAB Flow Conditioners

Flow Conditioning Opens New Installation Opportunities

Flow conditioning is a complementary advancement that many flow technologies have adopted. We present the **VORTAB® Flow Conditioners**, which provide excellent isolation, swirl reduction and at virtually no pressure loss. This type of flow conditioning has dramatically opened the application universe for point sensing technologies, such as Thermal, whose normal installation guidelines recommend pipe runs of 20 diameters upstream straight run and 10 pipe diameters of downstream run. By combining and embedding flow conditioners wit thermal mass flow meters they attain their published performance specifications in installations with less than 7 total pipe diameters.

Technical details: VORTAB Flow Conditioners



OUR PRODUCTS

Systems of Valves:
Tideflex Mixing Systems
Tideflex Effluent Diffusers

Valves:
Water Control Valves - **SINGER**
Pinch Valves (manual, air-operated)
All-rubber Check Valves - **TIDEFLEX**
Flow Regulators
Rubber Expansion Joints

Sensors:
Oil Spill Detectors - **OilSpy**
Flow Conditioners - **VORTAB**
Flow Meters - **FCI** (Thermal Dispersion)
Flow Meters - **ACCELABAR** (Pitot Pipe)
Flow Switches
Pressure & Temp. Switches
Laser Level Transmitters
pH Sensors
Suspended Solids & Turbidity Sensors
Humidity & Lux Monitoring

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In hazardous / explosive gases?
FCI's Thermal Technology is safe to use in near all flammable and explosive liquids and gases, including Hydrogen. Both flowmeters and switches are ATEX rated EExd.

Read more about other FCI Flow Switches and Flow Meters for measuring and controlling Compressed Air, Nitrogen, Hydrogen and Biogas flow.

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