



The mass flow experts for flow, level and temperature instrumentation

Solving critical process applications for the Power and Energy Industry

rom the early 1960s, Fluid Components International recognized the need for flow and level instrumentation which met specific customer requirements and demands for the Power and Energy Industry. By utilizing Thermal Dispersion and Coriolis technology exclusively in all FCI flow, level, interface, temperature switches and mass flow meters, our products solve typical Power and Energy Industry application challenges with standard product features such as:

- > No moving parts
- > All welded materials of construction
- > Direct mass flow measurement
- > No pressure drop
- > Explosion-proof design
- > Wide flow range
- > Low flow capability

By closely monitoring the everchanging requirements for the Power and Energy Industry, FCI has maintained its reputation as the technology leader with new product features such as:

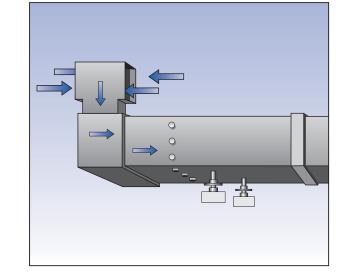
- > Modern digital communications with HART, Modbus, Profibus, Ethernet and ASI
- > Fail-safe mode selection per Namur NE43
- > Compliance with the latest approval requirements of FM, CSA, CRN, ATEX, CE Mark and PED
- > Application focused marketing and engineering research and design
- > Secondary sealed flow element sensor design
- > Integral flow conditioners
- > Two-wire loop-power flow, level and interface detection

- FCI Power and Energy Industry customers
- > Detroit Edison
- > Energy Northwest
- > Duke Power
- > First Energy Corporation
- > Bridgeport Resco
- > Duquesne Light
- > Florida Power & Light
- > Georgia Power
- > GPU Nuclear
- > Ameren/CIPS
- > United Pacific Controls

- > Korea Electric Power > Comision Federal
- De Electricidad

> Taiwan Power

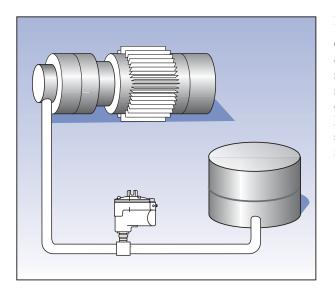
- > Niagara Mohawk
- > Gulf Power
- > Houston Lighting
- > General Electric
- > American Combustion
- FCI Power and Energy Industry customers for **Engineering, Procurement & Construction (EPC)**
- > Bechtel Group
- > Sargent & Lundy
- > Black & Veatch
- > Duke Engineering & Services
- > Fluor > Foster Wheeler
- > VECO
- > B.E. & K. Inc.
- > Washington Group Intl
- > Parsons
- > Day & Zimmerman Intl > Chicago Bridge & Iron



> Pulverized air flow

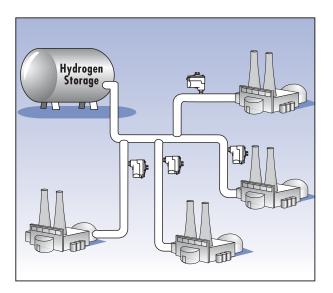
The measurement and control of mill air flow in coal-fired boilers to minimize pulverizer performance problems is an industry-wide challenge. Minimizing Nox and maximizing plant efficiency has now taken center stage for this task. Measurement of air flow is important in controlling mill slugging, feeder runback and coal spillage. It is also a main factor in minimizing emissions and maximizing fuel response to the furnace, thus maximizing efficiency for these plants. FCI's MT Series multipoint mass flow meters measure wide flow rate ranges in high temperature applications. The no moving parts design prevents highly corrosive fly ash from clogging or fouling.

- & Power



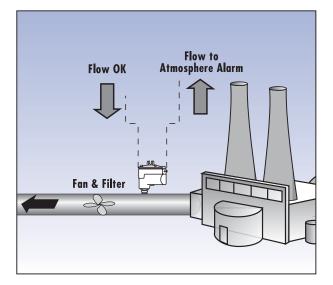
> Condenser air in-leakage

Changes in the discharge flow represents air in-leakage through the compressor. The negative effects of air in-leakage in the vacuum system are well understood. FCI's GF90 Series mass flow meter detects small changes in flow that represent changes in efficiency of the compressor. Pre-requirements for successful monitoring require low flow sensitivity, wide flow range measurement, repeatability and accuracy -- all of which are standard features of FCI thermal mass flow meters.



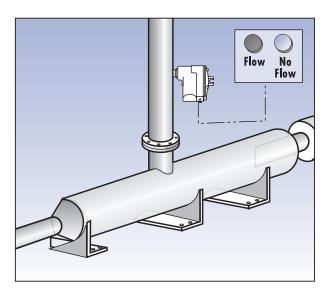
> Hydrogen flow monitoring

Hydrogen is a commonly used cooling agent in power plant turbine generators. Leaking hydrogen gas can pose a safety concern in the power plant. FCI's GF90 Series mass flow meters detect increase in usage; thereby alerting operators of leaks. In addition to monitoring for hydrogen leaks, plants need to measure the flow rate for custody transfer billing verification from the gas supplier to the utility. Also, multiple plants typically draw from a common hydrogen supply by using FCI's GF92 inline unit. FCI's GF Series mass flow meters measure the flow at each location, so each plant can be assessed their appropriate share of hydrogen usage.



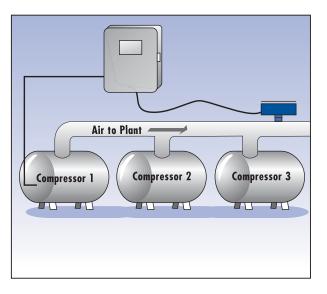
> Reverse flow vent monitoring

To ensure critical flows and detect changes in the direction of air purge in and out of chemical plants, the solid-state RF83 bi-directional flow monitor is the best suited instrument available. It may be mounted on the inlet ducts to monitor all flow into the building. If the flow reverses, safety alarms will trip for failure notification of the fans.



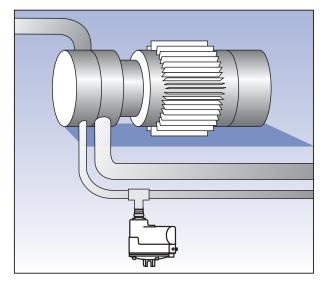
> Pump protection

FCI's FLT93S FlexSwitch[•] is the ideal instrument to protect pumps from failure due to low flow operation. The no moving parts design, capable of low flow sensing, is well suited to identify a wide variety of product flows in harsh industrial environments. The dual switch points may be set to alarm low flow or high temperature, both indications of conditions that cause pump failure.



> Compressed air flow monitoring

Frequently, in a plant environment, there is a controller that monitors the use of compressed air within the facility. The controller automatically determines the optimum number of compressor units that need to be in operation at any given time to handle the facility load. By only operating the units that the demand requires, a tremendous amount of energy is saved. The demand is determined by the total mass flow of air used by the plant, and FCI's ST98 FlexMASSter® Series mass flow meters are designed specifically for this purpose. The controller then sets the compressor usage based on the mass flow rate indicated by the ST98.



> Seal gas detection

Coolant and lubricant seal leakage are a serious threat to the efficiency of pumping systems. Fluid contamination to the product and loss of product through damaged seals are avoided with FCI's FLT93L inline FlexSwitch or FR78 inline low flow monitor. Even a leak as small as 1.0 cc/sec is detected by these highly sensitive instruments. Because the FCI sensor elements operate without obstructing the seal vent line, there is no excessive pressure drop if a severe seal rupture occurs. For slurry pumps, the dual switch point option may be used to identify either a low seal water flow or a high flow seal rupture.

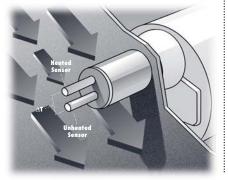
Serving critical process instrumentation needs around the world

CI introduced the first thermal flow switch/monitor in 1964 and has since established a worldwide reputation for the design and production of precision high performance flow, level and temperature instrumentation. With reliability second to none, FCI has placed over 200,000 units in the field covering the full range of liquid, gas and slurry process requirements. FCI products service some of the world's most demanding processes in industries such as food & beverage, pharmaceutical, chemical, oil and gas, pulp and paper, power and energy, water and wastewater, nuclear power, aerospace and more. FCI offers a broad range of instrumentation solutions and services, from off-the-shelf devices to custom engineered systems. FCI's engineering staff provides expertise in mechanical, electronic and thermo-dynamic disciplines offering innovative solutions to specialized customer application needs, configuration objectives, software enhancements, and material problems.

Thermal Dispersion principle

The typical sensing element contains two thermowell-protected precision platinum Resistance Temperature Detectors (RTDs). When placed in the process stream, one RTD is heated and the other RTD senses the process temperature. The temperature difference between the two RTDs is related to the process flow rate as well as the

Thermal mass flow technology supports virtually all gas or air measurement needs. It is especially well suited for dirty gas because of its no-moving parts design with no orifices, bearings, or seals to foul or fail.





Product development, testing and calibration are performed in FCI's laboratory using NIST traceable equipment, which ensures bigbly reliable performance in bundreds of applications.

properties of the process media. Higher flow rates or denser media cause increased cooling of the heated RTD and a reduction in the RTD temperature difference.

FlexSwitch® FLT93 Series

The FLT93 Series utilizes proprietary thermal dispersion technology to provide the highest reliability in flow, level and temperature detection. The sensing element is composed of two matched RTD's. One RTD is preferentially heated. The other RTD is unheated and thermally isolated to provide continuous process condition temperature and baseline indication. At no flow or under dry conditions, the temperature differential between the two RTDs is greatest.

> For flow/no flow detection

No-flow conditions produce a large signal. As flow increases, the heated RTD is cooled and proportionally reduces the temperature differential. Changes in flow velocity directly affect this rate of heat dissipation. An electronic circuit normalizes the differential measurement with the process media temperature and converts the RTD temperature/resistance differential into a DC voltage signal. This signal is provided at output terminals and used to drive two adjustable setpoint alarm circuits that are independently field configurable for specific flow service applications.

> For liquid level/ interface detection

Dry conditions (no liquids present) produce the greatest temperature differential. The signal decreases when the level element is submerged as the cooling effects of the fluid drive the temperature/resistance differential downward. Since all process fluids have different thermo physical properties, different fluids exhibit unique heat transfer characteristics. Interface detection between non-miscible fluids can be factory or field calibrated to alarm when the fluid changes from liquid to foam, between two different fluids, or between fluid and rag layer or emulsion.

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FCI's complete line of flow, level and temperature instrumentation

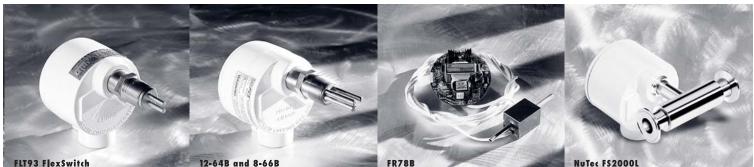






Thermal Mass Flowmeter Series							
	ST98 FlexMASSter® Insertion Gas Mass Flowmeter	ST98L FlexMASSter ® Inline Gas Mass Flowmeter	ST98HP FlexMASSter Inline High Purity and Ultra High Purity Mass Flowmeter	GF90 Insertion Gas Mass Flowmeter	GF92 Inline Gas Mass Flowmeter	GF03 Insertion Flare & Mixed Gas Mass Flowmeter	MT Series Multi-Point Mass Flowmeters
Sensing/Flow Element Range	0.75 to 600 SFPS* [0.21 to 172 NMPS]	0.0062 to 1850 SCFM* [0.01 to 3,140 NCMH]	2.0 to 3183 SCFM* [3.4 to 5409 NCMH]	0.25 to 1600 SFPS* [0.08 to 488 NMPS]	0.006 to 2000 SCFM* [0.01 to 3398 NCMH]	0.5 to 275 SCFM* [0.15 to 84 NCMH]	0.25 to 150+ SFPS* [0.08 to 46 NMPS]
Adjustable Response Time		N/A				N/A	N/A
Process Connection	3/4" male NPT stainless steel adjustable compression fitting with Teflon or metal ferrule. Flange connections and field retractable packing gland assemblies available.	Female NPT standard on 1" tubing; 1", 1.5" or 2" schedule 40 pipe; flange connections available.	3⁄4" to 4" [19 to 102 mm] with but weld or sanitary flange connections. Standard: 14 Ra electropolish Optional: 10 Ra electropolish	1" male NPT. Flange connections and field retractable packing gland assemblies available.	3/4" female NPT standard. 1", 1.5" and 2" male or female NPT. Flange connections available.	1" male NPT standard. 17/a" male NPT, flange connections and field retractable packing gland assemblies available.	2" male NPT or 3" 150 lb raised-face carbon steel flange. Other flange connection sizes and materials available.
Insertion Length or Inline Sensor Assembly Body Length	Field adjustable lengths: 1 to 6" [25 to152 mm], 1 to 12" [25 to 305 mm] or 1 to 21" [25 to 533 mm]; custom lengths optional.	1" tubing/pipe: 9" [228 mm] 1.5" pipe: 13.5" [342 mm] 2" pipe: 18" [684 mm]	1" flow tube: 5.25" [133 mm]; 1.5" flow tube: 5.75" [146 mm]; 2" flow tube: 6.75" [171 mm]; 3" flow tube: 7.75" [197 mm]	Variable insertion lengths; customer specified.	1" tubing/pipe: 7.25" [184mm] 1.5" to 2" pipe: 12" [304mm]	Variable insertion lengths; customer specified.	Variable insertion lengths; customer specified.
Enclosure Classification	Standard: NEMA/CSA Type 4X (equivalent to 1P66) and Division 2 (Ex n). Option: Aluminum is rated for hazardous location use Class I and II, Division 1 and 2, Group B, C, D, E, F, and G; and Ex d IIC and resisits the effect of weather and corrosion.	Standard: NEMA/CSA Type 4X (equivalent to 1P66) and Division 2 (Ex n). Option: Aluminum is rated for hazardous location use Class I and II, Division 1 and 2, Group B, C, D, E, F, and 6; and EEx d IIC and resisits the effect of weather and corrosion.	Standard: NEMA/CSA Type 4X (equivalent to IP66) and Division 2 (Ex n). Option: Aluminum is rated for hazardous location use Class I and II, Division 1 and 2, Group B, C, D, E, F, and 6; and EEx d IIC and resisits the effect of weather and corrosion.	Standard: Fiberglass NEMA Type 4X remote. Option: Aluminum and stainless steel enclosures are rated for hazardous location use(Class I and II, Division I and 2, Group B, C, D, E, F and G; and EEx d II(2) and resists the effect of weather and corrosion. NEMA and CSA Type 4X (meets IP66).	Standard: Fibergloss NEMA Type 4X remote. Option: Aluminum and stainless steel endosures are rated for hazardous location use(Class I and II, Division I and 2, Group B, C, D, E, F and G; and EEx d IIC) and resists the effect of weather and corrosion. NEMA and CSA Type 4X (meets IP66).	Standard: Fiberglass NEMA Type 4X remote. Option: Aluminum is rated for hazardous location use(Class I and II, Division I and 2, Group B, C, D, E, F and G; and EEx d IIC) and resists the effect of weather and corrosion. NEMA and CSA Type 4X (meets IP66).	Standard: Carbon steel, epoxy coated NEMA Type 4. Option: Aluminum is rated fo hazardous location use (Class I and II, Division I and 2, Groug B, C, D and G; and Ex d IIC) and resists the effect of weathe and corrosion. NEMA and CSA Type 4 (meets IP66).
Sensing/Flow Element Operating Conditions	Temperature: -40° to +350° F [-40° to +177° C] Option: -40° to +500° F [-40° to +260° C] Pressure: to 250 psig [17 bar(g)]	Temperature: -40° to +350° F [-40° to +177° C] Pressure: to 250 psig [17 bar(g)]	Temperature: -40' to +350'F [-40' to +177'C] Pressure: to 250 psig [17 bar(g)]	Temperature: -50° to +350° F [-45° to +177° C] Option: -100° to +850° F [-73° to +454° C] Pressure: to 1000 psig [69 bar(g)]	Temperature: -50° to +350° F [-45° to +177° C] Pressure: to 1000 psig [69 bar(g)]	Temperature: -50° to +350° F [-45° to +177° C] Pressure: to 1000 psig [69 bar(g)]	Temperature (MT86/MT91) -50° to +350°F [-45° to +177°C] Option: -50° to +850°F [-45° to +454°C] Pressure: to 50 psig [3.4 bar(g)]

* Air at 70 ° F [21.1 ° C] and 14.7 psia [1.01325 bar (g)] (reference)



Flow, Level and Temperature Switch Series FLT93L Flexswitch® FLT93C FlexSwitch NuTec® FS2000 NuTec® FS2000L 12-64B FR73B FLT93S FlexSwitch® FR78B Ultra Low Flow Insertion Flow Switch Inline Non-Intrusive FLT93F FlexSwitch® Inline Flow/Level/ Insertion Sanitary Insertion Flow Switch Low Flow Insertion Flow/Level/ Temperature Switch Flow/Level/Temperature Inline Monitor Inline Monitor Flow Switch 8-66B NuTec® LS2000 **Temperature Switches** Switch Insertion Level/ Insertion Level Switch Interface Switch Water-Based Liquids: Water-Based Liquids: Water-Based Liquids: Water-Based Liquids: 12-64B: Water-Based Liquids: Water-Based Liquids: FS2000: Water-Based Liquids: .015 to 50 cc/sec. [0.0009 to 3 lps] Water-Based Liquids. 0.03 to 85.5 FPS 0.01 to 3.0 FPS 0.01 to 3.0 FPS 0.08 to 2.25 rr/ser 0 01 to 1 25 cc/min [0.003 to 0.91 MPS] [0.003 to 0.9 MPS] [0.11 to 324 MPS] 0.015 to 0.5 FPS 0.015 to 1.5 FPS [0.005 to 0.15 MPS] Hydrocarbon-Based Liquids: Hydrocarbon-Based Liquids [0.045 to 0.45 MPS] Hydrocarbon-Based Liquids: Hydrocarbon-Based Liquids: Hydrocarbon-Based Liquids: Hydrocarbon-Based Liquids Air/Gas: Hydrocarbon-Based Liquids 0.05 to 25 cc/sec. 0.04 to 2 cc/min. 0.01 to 5.0 FPS .033 to 110 cc/sec. to 5.0 FPS 0.01 to 2.0 FPS 0.015 to 1.5 FPS 0.02 to 342 SCFM [0.003 to 1.52 MPS] [0.0003 to 1.5 MPS] [0.002 to 6.6 Ips] [0.003 to 0.61 MPS] Air/Gas: [0.045 to 0.45 MPS] [0.0006 to 9.70 NCMM] Air/Gas: Air/Gas: 0.5 to 100 SFPS 4.0 to 1500 cc/sec. 1.0 to 1000 cc/min. Air/Gas: 1.0 to 125 SFPS Air/Gas: Air/Gas: Air/Gas: 0.6 to 20,000 cc/sec. [0.036 to 1197.6 lps] 0.25 to 120 SFPS 0.25 to 120 SEPS [0.15 to 30 SMPS] [0.3 to 38 NMPS] [0.08 to 36.6 SMPS] [0.08 to 37 NMPS] 8-66B: Point Level/Interface LS2000: Point Level/Interface Flow: 10 to 300 seconds 1 to 150 seconds 1 to 150 seconds 0.5 to 2.5 seconds From 0.5 to 2.5 seconds From 0.5 seconds From 0.5 seconds From Leve: From 5.0 seconds 0.5 seconds Standard: 1" male NPT or ³/4" female 1" male NPT 0.25" tubing x 1.8" 0.125" OD tubing x 2" ³/4" male NPT 3/4" male NPT, 1" BSP. ³/4", 1", 1.5" and 2" Butt weld 1" male NPT; Flange connections and field [46 mm] long with 0.028" [0.7 mm] wall [50 mm] long with 0.028" [0.7 mm] wall NPT both ends. Flanae sanitary flanges connections available. thickness; 0.375 and 0.50" **Optional:** thickness. retractable packing gland assemblies available. Male NPT or sanitary tubing available. flange Line Size 3/4" 1" 1.2" [30 mm], 5.3" [135 mm]; 7.0" ± 0.25" 2" [51 mm]; 9" [229 mm] male NPT; Standard lengths of 1.2" [30 mm], 2" [51 mm], 4" [102 mm], 6" [152 mm], 3.375" [86 mm]; Tee Length 5.25" [133 mm] 4.75" [121 mm] 2.0" [51 mm] Custom lengths available. [178 mm ± 6 mm] 6" [152 mm]; 6" [152 mm] butt weld custom lengths available. Custom lengths available. or sanitary flanae 9" [229 mm], 12" [305 mm], and 18" [457 mm]; 1.5" 5.50" [139 mm] 7.00" [177 mm] 5.68" [144 mm] 7.50" [190 mm] custom lengths available. 2.5" 3" 4" 9.00" (229 mm) Standard: Aluminum is Standard: No enclosure Standard: Aluminum Standard: Standard: No enclosure Standard: Aluminum is Standard: Aluminum is Standard: Aluminum is rated **Option:** Aluminum is rated for NEMA and CSA Type 4 and resists the effects of rated for hazardous location Option: Aluminum is rated is rated for general Weatherproof rated for hazardous rated for hazardous for hazardous location use (Class for NEMA and CSA Type 4 nurnose use (Class Land use (Class L and IL Division location use (Class I and II, location use (Class I and II, I and II, Division I and 2, Group I and 2, Group B, C, D, E, F II, Division I and 2, Ontional: Aluminum and resists the effects of Division I and 2, Group B, Division I and 2, Group B, B, C, D, E, F and G; and EEx d and G; and EEx d IIC) and weather and corrosion weather and corrosion Group B, C, D). 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Option: Stainless steel Temperature: -100° to +350° F [-73° to +177° C] Temperature: -40° to +250° F [-40° to +121° C] Temperature: -40° to +250°F Temperature: Temperature: **Temperature:** Temperature: Temperature: -100° to +350° F [-73° to +177° C] -100° to +350° F [-73° to +177° C] -40° to +500° F -40° to +500° F -40° to +500° F [-40° to +121°C] [-40° to +260° C] [-40° to +260° C] [-40° to +260° C] Pressure: Pressure: Pressure: Pressure: Pressure: Option: -100° to +850° F Pressure: Pressure: to 500 psig [35 bar(g)] to 500 psig to 1000 psig [69 bar(g)] [-73° to +454° C] to 2000 psig [138 bar(g)] to 3000 psig to 1000 psig to 2000 psig [207 bar(g)] [35 bar(g)] [69 bar(g)] [138 bar(g)] Pressure: to 3500 psig [241 bar(g)]

12-64B and 8-66B

NuTec FS2000L

> For temperature detection

The unheated RTD serves as the baseline for establishing the differential temperature and continuous monitoring of the process temperature. Being thermally isolated, the unheated RTD provides accurate indication and detection of process fluid temperatures. Simultaneous temperature and flow and level detection can provide comprehensive process monitoring as well as critically supplement operator process health and efficiency awareness.

NuTec[®] 2000 Series

> 2-wire loop-power and non-intrusive switches

Extraordinarily responsive and accurate, the versatile NuTec flow/level switch series offers superior reliability in extreme process conditions. The FS2000 and LS2000 switches feature the first 2-wire thermal flow/no flow and level detection switches. These insertion switches are designed with FCI's proven thermal mass flow sensor technology in a rugged package that is easy to install and requires minimal maintenance. The FS2000L inline flow switch has an advanced non-intrusive sensor design constructed of 316L stainless steel with up to a 10 Ra electropolish finish approved for 3A sanitary and high purity applications. The FS2000L is available with inline sizes of 1/2 inch, 1 inch and 2 inches for easy installation using male NPT, butt-weld or sanitary flanges.

FlexMASSter® ST Series and GF Series mass flow meters

Because the relationship between flow rate and cooling effect directly relates to mass flow in gas applications, FCI thermal mass flow meters provide a highly repeatable and accurate measurement of gas or air mass flow rates. The ST98 Series "smart" electronics, equipped with advanced micro-processor-based circuitry, enable customers to reconfigure the signal outputs easily, as well as, display or alarm in the field by using either a built-in key pad or a handheld communicator. The GF Series offers wide turndown rations up to 800:1 with multiple gas calibrations with analog electronic circuitry.

FlexMASSter technology delivers performance and value by offering the most innovative, accurate and cost effective gas mass flow measurement systems available in the industrial flowmetering marketplace today. This highly reliable instrument provides the durability and speed required for today's harsh process environments and delivers true direct mass flow measurement. FCI's FlexMASSter simplifies gas mass flowmetering with a single process penetration, eliminating costly temperature or pressure transmitters and a flow computer required with other technologies.

CMF FlexCOR® Series

The CMF FlexCOR Series Coriolis flow meters push development a giant leap forward in Coriolis measurement technology. Unaffected by variations in pressure, temperature, density, electrical conductivity and viscosity, the FlexCOR Series provides highly accurate mass flow measurement over wide flow ranges while utilizing its advanced technology to achieve unsurpassed operational performance stressing safety, reliability and quality.

VORTAB® flow conditioners

FCI ensures the field performance of its highly accurate mass flow meter product lines by offering VORTAB flow conditioners. VORTABs ensure accurate, repeatable gas flow measurement and are the efficient alternative to long lengths of straight piping or ducting upstream of a flow meter installation location. VORTAB units reduce or eliminate pressure drop, swirl, jetting and more, while requiring just six diameters of pipe upstream from the flow meter. Each of the three available flow conditioner configurations consist of a short section of swirl reduction tabs combined with three arrays of patented VORTAB profile conditioning tabs.

FCI's extensive instrument test and calibration laboratory

FCI maintains an extensive, instrument test and calibration laboratory at its headquarters in San Marcos, California. Utilizing the latest in advanced, computerized data acquisition systems and calibration test equipment, this facility permits comprehensive product development, testing, and calibration. Any FCI product can be calibrated in accordance with customer specifications. Laboratory standards are maintained with NIST (National Institute of Standards and Technology) traceable Cavitating Venturis (CVs) and precision calibrated, pressure and temperature corrected turbine flow meters. Combustible and non-combustible gas calibration flow stands allow for the calibration of FCI products in a wide range of gases as gas mixtures in flow stand sizes as small as 1/8 inch to 30 inches [3 to 760 mm] in diameter. A variety of flow profiles from laminar to turbulent conditions are generated to duplicate actual field conditions. Flow rates from 0 to 20,000+ SCFM [0 to 34,000 NCMH], velocities from 0 to 800 SFPS [0-240 NMPS], pressures from vacuum to 3000 psig [200 bar(g)], and temperatures from -100° to 850°F [-70° $to + 454^{\circ}C$].

FCI on-site instrument calibration and training

In-situ calibration is available from FCI's Field Service Engineers where precise test and calibration is accomplished in actual media conditions.





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