

Literature: <http://www.fluidcomponents.com/Industrial/Products/MassFlowMeters/ProdGF90.asp>

VeriCal™ In-Situ Calibration System for GF90 Flow Meter Eliminates De-Install/Re-Install--Saving Time and Money

Ideal In Oil/Gas Production or Refining, Chemical Plants & Electric Power Generation



San Marcos, CA—With the new VeriCal™ In-Situ Calibration Verification System for the GF90 Air/Gas Flow Meter from Fluid Components International, plant technicians can confirm flow measurement accuracy in only minutes without removing the meter from the pipe or process, saving time and money.

The VeriCal In-Situ Calibration Verification System for the GF90 Flow Meter is the easiest, fastest, lowest cost way to confirm gas flow calibration accuracy to meet process validation, safety and environmental regulation requirements. Validating flow meter calibration has always been a labor intensive, costly and challenging exercise because the meters had to be pulled from the process, returned to the manufacturer or a calibration lab for testing and then shipped back for re-installation in the process.

The VeriCal System is a specially manufactured and plumbed GF90 flow element with additional electronics to feed and measure a precise flow of gas from a nitrogen source. To test a GF90 flow meter, the nitrogen gas is flowed through the meter's flow element and measured at five pre-set measurement points across the meter's range. The in-situ flow meter test data is then compared to original FCI laboratory calibration and installation benchmark test data for the meter.

The VeriCal System for the GF90 Flow Meter is ideal in a wide range of applications for oil/gas production and refining, chemical plants and electric power generation, wherever periodic flow meter calibration validation is required by the process or regulations. These applications include: flares, offshore platforms, ship-to-shore offloading, well heads, tank farms, storage and distribution facilities, landfill biogas recovery, coal-fired power plants and more.

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The GF90 Flow Meter delivers high accuracy measurement over a wide range, including low flows. It is designed with a thermal mass gas flow sensing element of 316 stainless steel and nickel-braze construction. Featuring constant power technology, the GF90 can achieve turndowns from 1000:1, accuracy of ± 1 percent of reading plus 0.5 percent of scale, with repeatability of ± 0.5 percent of reading or better.

The GF90's wide flow range is suitable for air/gas flows from 0.25 to 1600 SFPS (ft/sec at a standard temperature of 70°F and pressure of 14.7 psia) or 0.08 to 487.7 NMPS (m/sec at a normal temperature of 21.1°C and pressure of 1.013 bar absolute). It is available for service in broad range of fluid temperature applications, from -100 to 850°F (-73 to 454°C) and pressure applications to 1000 psig [69 bar (g)].

Designed for multi-gas or variable flow processes, the intelligent GF90 Flow Meter includes an advanced microprocessor-based programmable transmitter. The transmitter can store up to three calibration groups. Each group can be independently configured for a specific calibration range, fluid, switch point settings, etc., to provide accuracy in complicated processes. The instrument is also inherently multi-variable.

The GF90's transmitter electronics are addressable via a built-in LCD display and keypad or through its RS-232C serial port. This allows the user to perform in-field programming to change zero, span, switch points and engineering units, or to perform instrumentation verification, troubleshooting and other critical functions. The serial I/O ports support access to computers or ASCII terminals.

The GF90's transmitter features two independent, field programmable analog signal outputs of 4-20 mA, 0-10 Vdc, 0-5 Vdc, and/or 1-5 Vdc, which can be assigned to any combination of flow and/or temperature. It also offers dual alarm switch points with relay outputs. The switch points are user field-programmable to alarm at high, low or windowed and can also be assigned to flow and/or temperature readings. Dual 10A relay outputs are provided for contact closures to lamps, alarm and control systems.

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 and level of air, gases and liquids.

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