

Adjustable Gas Series - Range 1 slpm to 700 slpm



FS5100 Series Flow Switch - *High Flow*
available with 1/4 and 1/2 NPT Connections
with optional Explosion Proof Cap

FEATURES

- ◆ Fully Field Adjustable
- ◆ Operates in any Orientation
- ◆ Operating Temperature
-40°F to +220°F
(-40°C to +105°C)
- ◆ Operating Pressure
1000 psig (68 bar)
- ◆ 316 Stainless Steel Construction
- ◆ Shock and Vibration Resistant
- ◆ Contamination Resistant
- ◆ 1/4 & 1/2 NPT Connections
- ◆ Optional Explosion Proof
- ◆ **CE** compliant

Applications

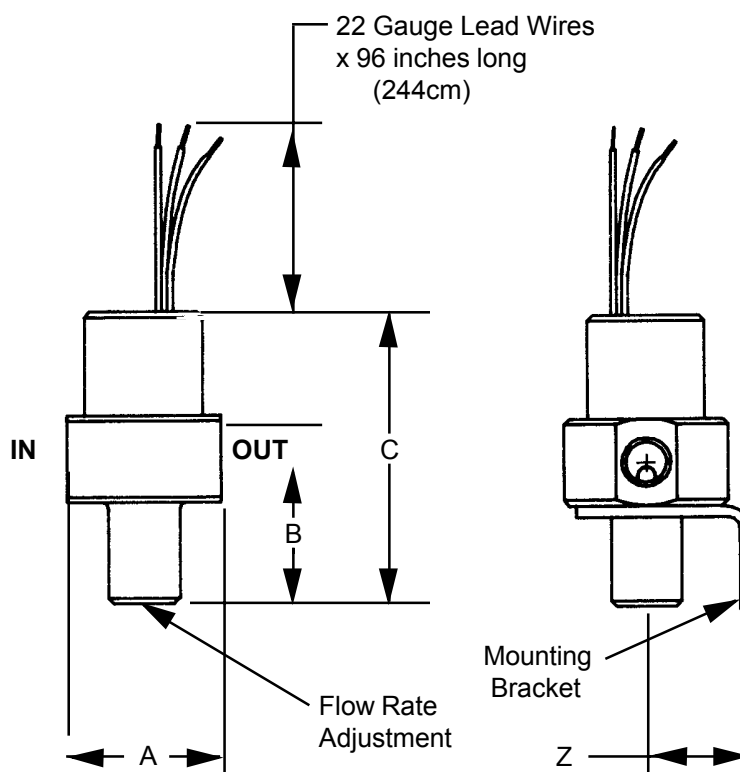
- ◆ Purge flow fault monitor
- ◆ Toxic or hazardous gases
- ◆ Flammable or pyrophoric gases
- ◆ Chemical analyzers
- ◆ Oxygen systems

The FS5100 Series Flow Switch - *High Flow* is designed to precisely detect increasing or decreasing flow rate of gases for critical processes. The electrical switch is operated by a high energy permanent magnet. The permanent magnet is totally encapsulated by 316 stainless steel, utilizing the patented **Autoseal** process, providing a continuous, impenetrable barrier of 316 stainless steel, which is chemically resistant to even the most aggressive chemical action. The linear, high resolution adjustment allows for precise settings. The compact construction is ideal for high density system packaging.

For pricing or any further information, please contact Omni Instruments Ltd.

SPECIFICATIONS

- ◆ Switch Assembly - SPDT UL 61760
- ◆ 100 VDC, 120 VAC max.
- ◆ 3 Watts resistive max. continuous
- ◆ 0.25 Amp. max. continuous
- ◆ 3.30 VA max. - 100 VDC
- ◆ 2.46 VA max. - 120 VAC
- ◆ 0.20 Ohm max contact resistance
- ◆ Adjustable Flow Rate Setpoint*
(see table)
- ◆ Fluid Media: Gases including corrosives
- ◆ Pressure: 1000 psig max. (207 bar)
- ◆ Differential Pressure at set point:
-5, -8: 1.0 psi max.
-6, -9: 5.0 psi max.
- ◆ Operating Temperature:
-40°F to 220°F (-40°C to 105°C)
- ◆ Leakage: 1x10⁻⁷ cc/sec He max.
- ◆ Set Point Accuracy: ±1%
- ◆ Response Time: 10 milliseconds max.
- ◆ Deactuation (reset): less than 12% of actuation set point
- ◆ Internal Filter: 40 micron
- ◆ Materials:
Body and wetted parts: 316 St Stl
Spring: Inconel X
Seals: As specified



Series	Pressure Ports	Dimensions					Adjustable* Flow Rate
		A	B	C	Z		
FS5104	1/4 NPT	1.63	1.56	3.12	1.13	-5	1 slpm - 65 slpm
						-6	1 slpm - 120 slpm
FS5108	1/2 NPT	2.25	2.24	3.89	1.63	-8	1 slpm - 325 slpm
						-9	1 slpm - 700 slpm

ORDERING INFORMATION

Part Number Example: **FS5104 C V - 5 M X**

Basic Series:

FS5104 - 1/4 NPT
FS5108 - 1/2 NPT

Material:

C = 316 Stainless Steel

Seal Material:

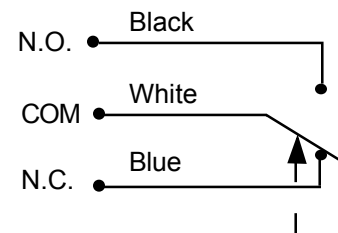
V = Viton®
B = Buna - N
E = Ethylene Propylene
K = Kalrez®

Optional Explosion Proof Cap

Optional Mounting Bracket

Adjustable Flow Range*
(see table)

ELECTRICAL SCHEMATIC



Adjustable Flow Rate Set Point Nitrogen @ 5 psig (0.34 bar)

Increasing Flow