



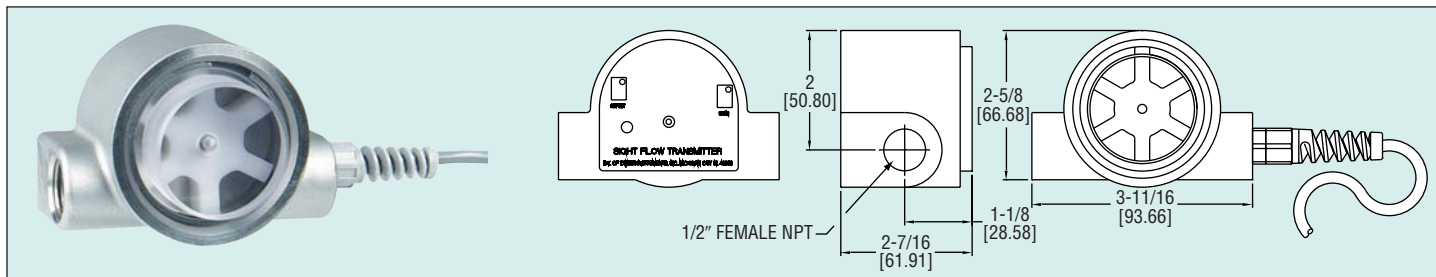
Series
SF

Sight Flow Transmitter

±2% FS Accuracy, 4 to 20 mA Output, Pressure up to 500 psig (34 bar)



Flow



Series SF Sight Flow Transmitter integrates tangential turbine technology with hermetically sealed circuitry to provide accurate flow measurement and control in the harshest environments. The 2-wire loop-powered design transmits a 4 to 20 mA signal proportional to flow rate. Models can accurately measure flow in both directions and can be mounted in any orientation. Model SF11 has a clear polycarbonate viewing cover for visible indication of flow. Units feature LED power indication, adjustable zero and span, polarity protection and over current limiting.

STOCKED MODELS

Model Number	Cover Material
SF10	316 Stainless Steel
SF11	Clear Polycarbonate

SPECIFICATIONS

Service: Compatible Liquids.
Wetted Materials: 316 SS shaft and case, iglide® bearings, Buna-N seal and acetal copolymer, (polycarbonate cover on Model SF11).
Flow Range: 0.5 to 15 GPM (2 to 60 LPM).
Accuracy: ±2% FS.
Repeatability: 0.5% Full Scale.
Temperature Limits: 20 to 225°F (-7 to 107°C).

Pressure Limits: 500 psig (34 bar) Model SF10, 200 psig (14 bar) Model SF11.
Response Time: 2 seconds to 90% (step change in flow rate).
Supply Voltage: 12 to 35 VDC.
Output: 4 to 20 mA.
Loop Resistance: 1150 ohms max.
Connections: 1/2" female NPT. Wire Leads: 22 AWG x 9' (2.7 m).
Max. Particle Size: 100µm.
Agency Approvals: CE.

APPLICATIONS

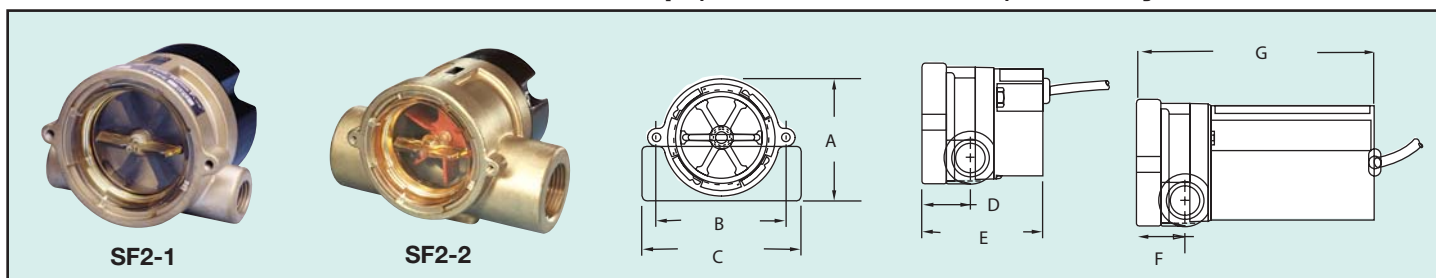
Ideal for measuring flow rates in cooling and lubrication circuits, HVAC systems, aggressive chemical metering, and batching systems.



Series
SF2

Sight Flow Meters

SPDT or Pulse Output, Visual Flow Confirmation, Brass Body



Series SF2 Sight Flow Meters combine visual confirmation of flow with a relay or pulse output. The brass, unibody construction, one piece composite rotor, and ceramic shaft delivers durability with broader chemical, temperature, and pressure capabilities. For specific flow setpoint switching, select SF2-1 meters with a SPDT relay output. Setpoints are fully adjustable over the specified flow range. The dynamic operation of the rotor guards against jamming and false actuation. For flow rate monitoring or metering applications, select SF2-2 meters with a pulse output proportional to the rate of flow. The 4.5 to 24 VDC pulse output is compatible with most digital logic families.

POPULAR MODELS

SPDT Relay Output			
Model Number	Range (GPM)	Input	Connection
SF2-104	0.5 to 5.0	24 VDC	1/4" female NPT
SF2-101	0.5 to 5.0	110 VAC	1/4" female NPT
SF2-114	4.0 to 20.0	24 VDC	1/2" female NPT
SF2-111	4.0 to 20.0	110 VAC	1/2" female NPT
SF2-124	5.0 to 30.0	24 VDC	3/4" female NPT
SF2-121	5.0 to 30.0	110 VAC	3/4" female NPT
SF2-134	8.0 to 60.0	24 VDC	1" female NPT
SF2-131	8.0 to 60.0	110 VAC	1" female NPT
Pulsed Output			
Model Number	Range	Input	Connection
SF2-204	0.5 to 5.0	4.5 to 24 VDC	1/4" female NPT
SF2-214	4.0 to 20.0	4.5 to 24 VDC	1/2" female NPT
SF2-224	5.0 to 30.0	4.5 to 24 VDC	3/4" female NPT
SF2-234	8.0 to 60.0	4.5 to 24 VDC	1" female NPT

DIMENSIONS

Model	A	B	C	D	E	F	G
SF2-104	2.37 [60]	2.50 [64]	3.01 [76]	0.87 [22]	2.32 [59]	—	—
SF2-101	2.37 [60]	2.50 [64]	3.01 [76]	—	—	0.80 [20]	4.50 [114]
SF2-114	2.37 [60]	2.50 [64]	3.01 [76]	0.87 [22]	2.32 [59]	—	—
SF2-111	2.37 [60]	2.50 [64]	3.01 [76]	—	—	0.87 [22]	4.50 [114]
SF2-124	2.57 [65]	2.50 [64]	3.94 [100]	1.06 [27]	2.32 [59]	—	—
SF2-121	2.57 [65]	2.50 [64]	3.94 [100]	—	—	1.06 [27]	4.76 [121]
SF2-134	2.57 [65]	2.50 [64]	3.94 [100]	1.06 [27]	2.32 [59]	—	—
SF2-131	2.57 [65]	2.50 [64]	3.94 [100]	—	—	1.06 [27]	4.76 [121]
SF2-204	2.37 [60]	2.50 [64]	3.01 [76]	.87 [22]	2.32 [59]	—	—
SF2-214	2.37 [60]	2.50 [64]	3.01 [76]	.87 [22]	2.32 [59]	—	—
SF2-224	2.57 [65]	2.50 [64]	3.94 [100]	1.06 [27]	2.95 [75]	—	—
SF2-234	2.57 [65]	2.50 [64]	3.94 [100]	1.06 [27]	2.95 [75]	—	—

SPECIFICATIONS

Service: Liquids compatible with wetted parts.

Wetted Materials: Brass body, ceramic pin, PPS rotor, Polysulfone lens, and Viton® O-ring.

Accuracy: Relay output: ±5%; Pulsed output: ±7% for ranges up to 5.0 GPM, ±15% for ranges up to 60.0 GPM.

Temperature Limits: -20 to 212°F (-29 to 100°C).

Pressure Limit: 200 psig @ 70°F.

Power Requirements: See table.

Output: SPDT: 1 Amp, 24 VDC resistive; 0.3 Amp, 110 VAC or 4.5 VDC to 24 VDC pulse depending on model.

Electrical Connections: Relay output models: 20AWG PVC-jacketed, 22" cable; Pulsed output models: 22AWG PVC-jacketed, 24" cable.

Process Connections: See table.
Setpoint Differential: 15% max for relay output models.

Maximum Viscosity: 200 SSU.

Agency Approvals: CE.