

EQUFLOW**PFA(0045, 0085, 00125) Teflon Turbine Flow Sensor**

PFA wetted parts, F.S. ranges of 2, 20, & 40 lpm, Frequency/Analog Output

DESCRIPTION

The PFA flow sensor has low flow sensing capabilities in a wide range of applications, and is suitable for clear, opaque, neutral, corrosive and aggressive liquids including fuel.

An ultra light-weight turbine follows the fluctuation of flow very accurately and generates a high resolution IR reflected digital output signal.

In either flow controlled or monitoring applications, the PFA flowsensor can measure flow rates and totalize. Optional elements built into the circuit include a programmable K factor, flow switch and a programmable batch feedback function for pump control.

External optional electronic packages include model 6100 digital to analog (4-20 mA) converter. Also model S601, a professional, solid batch and flow controller that can be used as a monitor and/or totalizer and model 6300 switch module for use with optional built-in flow switch and batch functions.

Features

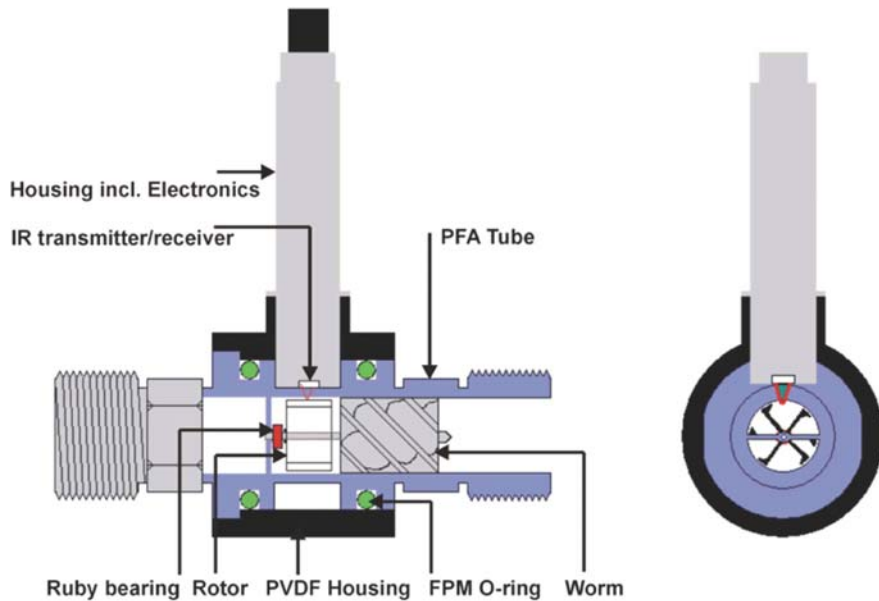
- Turbine flowsensor with high resolution output
- Flow measuring by revolutionary IR turbine reflection
- PFA / Teflon for high chemical and corrosion resistance
- High accuracy and repeatability
- Suitable for opaque liquids
- PFA meets all the requirements of the US Pharmacopeia Class VI
- BSE/TSE certificate available
- All wetted parts are made of Teflon®PFA with ruby bearing

**SPECIFICATIONS**

Patent No. US5388466

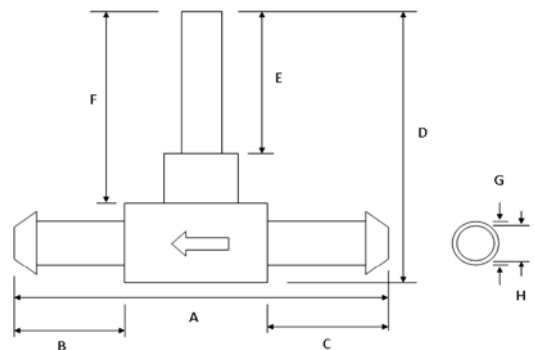
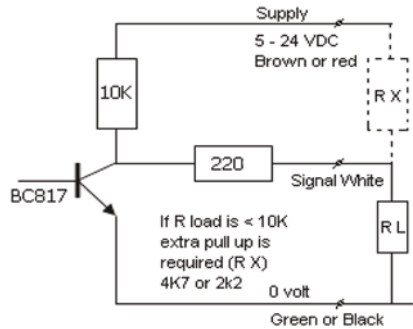
GENERAL

Model	PFA0045	PFA0085	PFA0125
Inner diameter in mm	4.5	8.5	12.5
Flow range	0.06 - 2 L/min	0.5 - 20 L/min	1.5 - 40 L/min
Accuracy	1% of reading	1% of reading	1% of reading
Repeatability	< 0.15 %	< 0.15 %	< 0.15 %
Wetted parts	PFA / Ruby	PFA / Ruby	PFA / Ruby
Tube connection thread/hose barb	1/8 " NPT / 7 mm	1/4 " NPT/ 12 mm	1/2 " NPT/BSP
Tube length in mm	52	60	72
Liquid temperature in °C	-20 to +80	-20 to +80	-20 to +80
Max. pressure at 20° C in bar (psi)	20 (284)	15 (213)	10 (142)
Viscosity in cSt.	0.8 - 10	0.8 - 10	0.8 - 10
K factor (water) in pulse/Liter	110,000	6,100	2,000
Power supply	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc
Output signal	5 - 24 V sq. wave	5 - 24 V sq. wave	5 - 24 V sq. wave
Power consumption	34 mA at 5 V	34 mA at 5 V	34 mA at 5 V
Electrical lead	PVC 1 meter	PVC 1 meter	PVC 1 meter
Recommended Line filter	100 µm	100 µm	150 µm



Working Principal:
 A static worm forces the passing fluid to spin. The spinning fluid drives a rotor with reflectors into a frictionless rotation. A high resolution infrared sensor determines the rate of flow by counting the passing reflections. The set up even allows the flow of opaque liquids to be determined accurately. The ultra low mass of the rotor guarantees a quick response to changes in the rate of flow

Wiring:
Power Supply 5-30 Vdc or 5 Vdc (low voltage option)
Output All Sensors: NPN square wave



Dim. (MM)	0045- Barb	0045- NPT	0085- Barb	0085- NPT	0125- NPT
A	50.8	51.5	60.3	60.3	71.5
B	14.7	15.8	19.2	19.2	22.3
C	16.6	15.8	19.2	19.2	26.3
D	60.6	60.6	66.8	66.8	71.2
E	36.7	36.7	36.7	36.7	36.7
F	46.5	45.5	44.4	44.4	45.6
G	7.8	9.8	13.2	13.2	14.0
H	4.6	4.7	9.0	9.0	20.3

ORDERING INFORMATION
ABCDEFGH
PFA0045TNP01XL

A Model	B Tube Dia./Range	C Wetted Material	D Connection	E Cable Type	F Cable Length	G Power	H Options
PFA	0045= 4.5 mm/0.1-2 l/min 0085= 8.5 mm/1.0-20 l/min 0125= 12.5 mm/2.0-38 l/min	T=Teflon & Ruby	H= Hose Barb N= NPT B= BSP(12.5 mm only)	P= PVC	01= Standard 02= 2 meters	XX= 5-30 VDC XL= 5 VDC	Built-in to Housing Electronics PD= Pulse Divider *F= Flow Switch *B= Batch Function *Requires model 6300 switch

Ask About Our Other Equiflow Products.....

- Stainless Flow Sensor
- Disposable Flow Sensor
- Electronic packages for use with Flow Meters
 - 6100 digital to analog (4-20 mA) converter
 - S601 solid batch and flow controller
 - 6300 switching module for flow switch and batch option

