



EQUFLOW[®]
Sensors

PFA Turbine flowmeter

The PFA flow sensor of Equiflow 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 accurate 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.



Patent US5388466

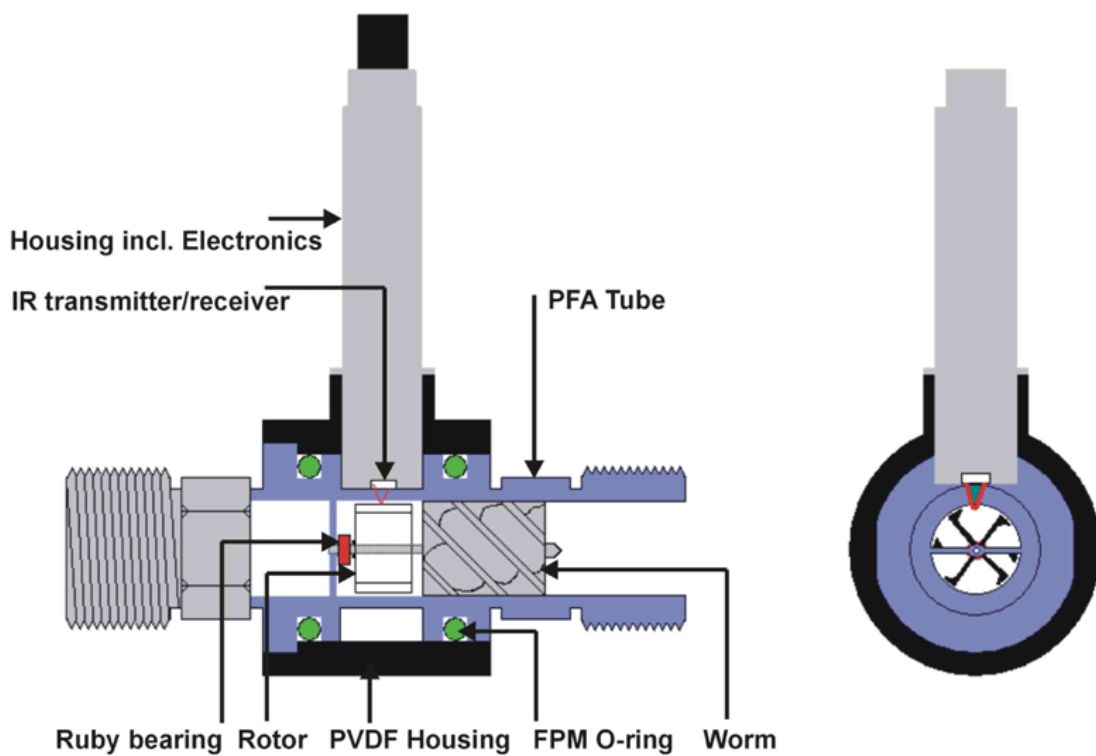
Characteristics:

Turbine flowsensor with high resolution output,
Flow Measuring by revolutionary IR turbine reflection.
PFA / Teflon for high chemical and corrosive resistance
High accuracy and repeatability ("swiss made")
Suitable for opaque liquids
PFA meet all the requirements of the US Pharmacopeia Class VI
BSE/TSE certificate available
All wetted parts are made of Teflon®PFA with ruby bearing.

Options:

Programmable K-factor
Flow Alarm level
Batchfunction with preset

Model	0045	0085	0125
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/hosebarb	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 tot +80	-20 tot +80	- 20 tot +80
Max. pressure at 20°C in MPa	2 (20 Bar)	1,5 (15 Ba r)	1 (10 Bar)
Viscosity in cSt.	0,8 - 10	0,8 - 10	0,8 - 10
Resolution in microL/puls	9	158	488
K factor (water) in pulse/Litre	110.000	6.350	2.050
Power supply	5 - 30 Vdc	5 - 30 Vdc	5 - 30 Vdc
Output signal	5 - 30 V sq. wave	5 - 30 V sq. wave	5 - 30 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
Other Specs on request			



Working principal:

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



Standard



Disposable



Stainless Steel



Electronics