



## Disposable PFA Turbine flowmeter

The click model is developed to perform a fast exchange of the flow tube (hygienically reason e.g. in pharmaceutical industry). Beside that the flow meter is suitable for aggressive liquids and for periodic monitoring. The flow tube is assembled in the flow system. For measurement and calibration the so called "click" housing is placed around the tube and measuring can take place.

### Characteristics:

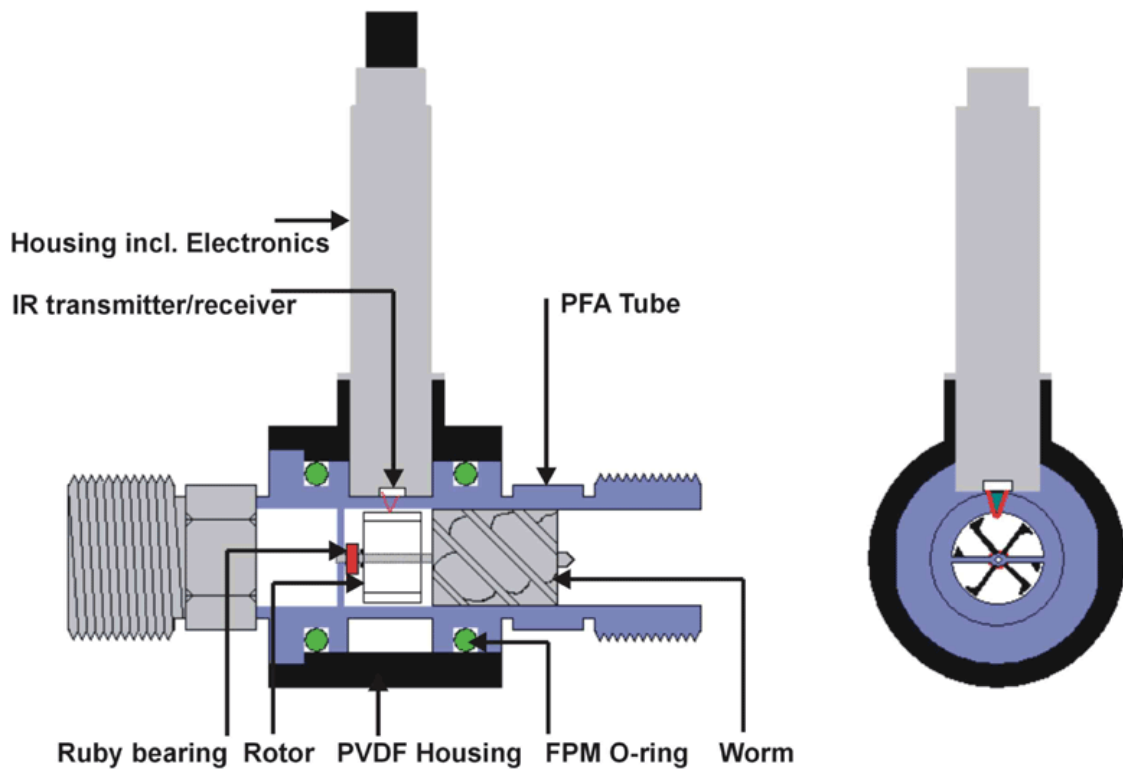
Turbine flowsensor with high resolution output, measuring by revolutionary IR turbine reflection.  
 PFA / Teflon for high chemical resistance  
 High accuracy and repeatability ("swiss made")  
 Suitable for opaque liquids  
 Programmable pulse output

All wetted parts are made of Teflon®/PFA with ruby bearing. The resolution of the 0045 model is 110.000 pulse/L. The flow tube can be sterilised up to 160° C.

Type	0045	0085
Inner diameter in mm	4,5	8,5
Flow range	0,06 – 2 L/min	1,0 – 20 L/min
Accuracy	approx. 1% of reading	approx. 2% of reading
Repeatability	< 0,15 %	< 0,15 %
Materials	PVDF / PFA / Ruby	PVDF / PFA / Ruby
Tube connection	1/8" NPT or 7 mm hosebarb	1/4" NPT or 12 mm hosebarb
Tube dimensions in mm	L. 52, Ø 17	L. 60, Ø 12
Liquid temperature in °C	-20 tot +80	-20 tot +80
Max. pressure at 20° C in MPa	2 (20 Bar)	1,5 (15 Bar)
Viscosity in cSt.	0,8 - 10	0,8 – 10
K factor (water) in pulse/Litre	110.000	6.350
Power supply	5 - 30 Vdc	5 - 30 VDC
Output signal	5 - 30 V square wave	5 - 30 V square wave
Power consumption	34 mA at 5 V	34 mA at 5 V
Electrical lead	PVC 1 meter	PVC 1 meter

Other Specs on request

Additional models: Standard version with fixed housing around the tube  
 Stainless steel version



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

Products Equiflow:



Standard



Disposable



Stainless Steel



Electronics