

# EQUFLOW "TURBO" SENSOR

## Description

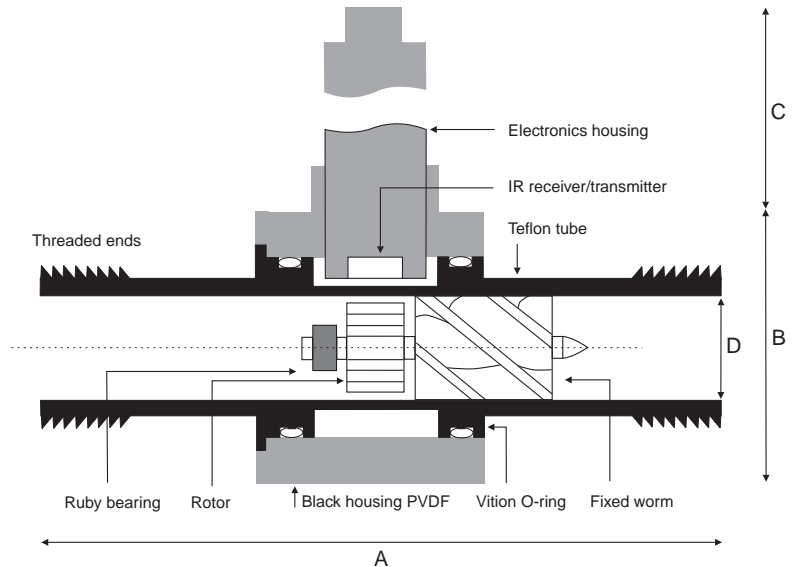
The Equflow "Turbo" sensors use a new, patented technique for flow measurement giving a wide flow range at very high resolution. The liquid flow is passed via a fixed worm mechanism to the Teflon rotor, the sensor uses infra red reflection to pick up pulses from this rotor. Since the only wetted parts are Teflon and the ruby bearing and with a viscosity range of 0.8 to 10mm<sup>2</sup>/sec., these sensors are suitable for use with most solutions. The 4.5mm, 8.5mm and 12.5mm models are available with BSP/NPT thread.

## Features

- Teflon & ruby glass bearing wetted surfaces
- Three flow ranges (0.1 to 35 L/min.)
- Repeatability <0.15%
- High resolution
- Infra red reflection pickup
- Square wave output
- No flow straighteners required

## Other models available

- Special optical cable versions for high temperature or explosive environments
- Stainless steel sensor versions



Order code	Flow range (L/min)	Linearity	Pulses/litre	Connection	Working pressure (bar) @ 20°C	Dimensions (mm)			
						A	B	C	D
EQ0045TNP01X24V	0.1-1.5	± 1%	124,000	1/8" BSP/NPT thread	20	52	17	47	4.5
EQ0085TNP01X24V	1.5-20	± 2%	6,350	1/4" BSP/NPT thread	15	60	22	47	8.5
EQ0125TNP01X24V	2.5-35	± 3%	2,050	1/2" BSP/NPT thread	10	72	26	47	12.5

## Specifications

Supply voltage: 5 to 24VDC  
 Total current: 5 - 9 VDC - 15 mA  
 12 VDC - 10 mA  
 24 VDC - 8 mA  
 Weather rating: IP65  
 Temperature rating: 80°C max.  
 Max pressure: 4.5mm dia - 20bar (300psi)  
 8.5mm dia - 15bar (225psi)  
 12.5mm dia - 10bar (150psi)  
 Pulse output: Square wave typically  
 -1 VDC of supply voltage  
 Repeatability: <0.15%  
 Viscosity range: 0.8-10mm<sup>2</sup>/sec. (cSt).  
 Cable length: 1 metre PVC cable standard,  
 Flow range: Three ranges 0.1 to 35 L/min.  
 Wetted materials: Teflon & ruby bearing  
 Electronics housing material: PVDF

Connections	
Brown	5VDC to 24VDC supply
White	Signal
Green	0 VDC
Drain wire	Earth



FS-EQTUR-4.0-0

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