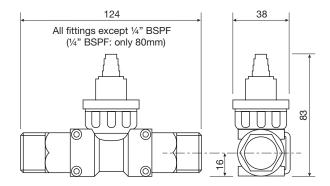
OTPICAL TURBINE FLOWMETER Serie FT2



This multi-range radial flow turbine meter uses a low inertia turbine supported on robust sapphire bearings in a chemically resistant housing. 9 flow ranges (0.02 to 160 L/min), a choice of "plug in" fittings and individual traceable calibration make this meter one of the most flexible available. For OEM applications the fittings can be tailored to suit the installation and speed production. Custom leads or connectors are also available for quantity orders.



- Drinks dispensing
- Laboratory tests
- Cooling equipment
- Semiconductor plant
- Water treatment
- Low viscosity fluids



FEATURES

- Economical
- PPS body
- ± 0.75% reading*
- 1-1.5% FSD
- Sapphire bearings
- Optical sensing
- 9 Flow ranges
- Pulse output
- 15 Bar rating
- Viton[™] seal as standard
- IP65
- Choice of fittings
- 0.1% Repeatability
- 5 or 7.5 to 24Vdc
- -10 to +80°C
- * When used with our Metra-Smart instrument

	Weight in kg					
Fitting	PVC	PVDF	Brass	316 St St		
8mm hose	0.082					
13mm hose	0.156					
1/4" BSP female			0.195	0.187		
1/2" BSP male		0.124	0.279	0.319		
34" BSP male	0.107	0.108	0.344	0.250		
1" BSP male	0.120	0.124	0.377	0.404		

OTPICAL TURBINE FLOWMETER Serie FT2

Ordering codes

Detector Type					
20 = Optical 7–24V dc					
21 = Optical 5V dc					
Electrical connections					
0 = Rubber grommet					
P = 4 pin socket					
N = IP67 gland					
Flow range L/min					
004					
016					
045					
065					
010					
030					
060					
Seal Material V = Viton [®]					
N = Nitrile					
E = EPDM					
K = Kalrez					
Fitting Size					
25 = 1/4"BSP					
50 = 1/2"BSP					
75 = 3/4"BSP					
10 = 1"BSP					
8H = 8mm hose					
0H = 13mm hose					
Fitting Material					
B = Brass					
S = 316 St St					
$C = PVC (60^{\circ}C max)$					
P = PVDF					
Special Code					
S = 0EM customer					

e.g. 200-100-V-10-B is a flowmeter with a flow range of 4.0 to 100 L/min, Viton[™] seal and 1" BSP brass fittings with a standard 6 point traceable water calibration.

At the heart of the meter is a precision turbine that rotates freely on robust sapphire bearings. This rotation is sensed using optical detection. The resulting output is an NPN pulse that is readily interfaced with most electronic display or recording devices.

This combination of materials and technology ensures a long life product with reliable operation throughout. Because the flowmeter is so versatile with respect to flow range and fittings every combination of range and fitting is not available. The chart below shows the maximum standard flow rate/fitting we would recommend to attain our performance figures. Alternatives are possible but there would be degradation in the meters performance.



TECHNICAL SPECIFICATIONS

Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx. 'K' Factor
004	0.02 - 0.5	1.5	266	32000
016	0.07 - 1.6	1.0	413	15500
045	0.10 - 4.5	1.0	637	8500
065	0.15 - 6.5	1.0	520	4800
010	0.40 - 10	1.0	417	2500
030	1.50 - 30	1.0	550	1100
060	3.00 - 60	1.0	550	550
100	4.00 - 100	1.0	550	330
160	6.00 - 160	1.0	640	240

Fitting	Recommended Max flow L/Min	PVC	PVDF	Brass	316 St St
8mm hose	4.5	*			
13mm hose	10	*			
1/4" BSP female	4.5			*	*
1/2" BSP male	30		*	*	*
34" BSP male	100	*	*	*	*
1" BSP male	160	*		*	*

Standard Materials of Construction

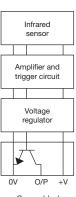
Body and cap - PPS 'O' Ring seal

Bearings

End fittings

- Viton™

- Sapphire
 - PVDF, PVC, St St or Brass



Sensor block