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02-02.1

PVDF FLOWMETER Series 800

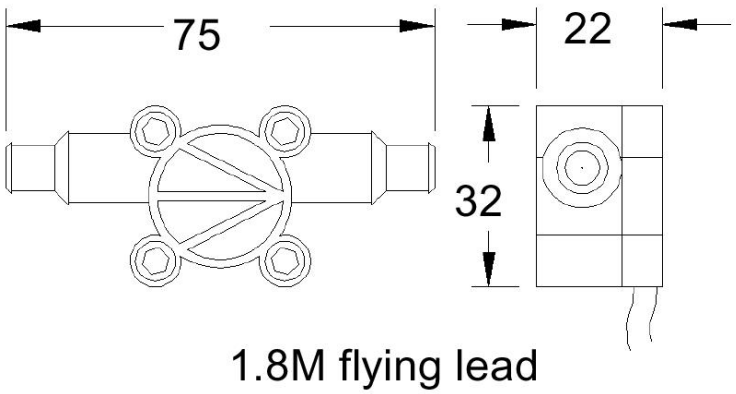
800 Series
Data sheet

- Low cost
- PVDF or PP body
- 1 – 2% FSD
- Sapphire bearings
- Hall effect sensor
- 6 Flow ranges
- Pulse output
- 10 Bar rating
- Viton seal as std.
- 8 & 12 mm hose
- 0.1% Repeatability
- 4.5 to 24 V dc
- 125°C Max
- Flow switch option

Ideal for

- Drink dispensing
- Laboratory tests
- Cooling equipment
- Active flow alarms
- Semiconductor plant

The 800 series flowmeter is designed to give high performance and competitive pricing with 6 flow ranges from 0.05 to 15 litres per minute. Its totally non-metallic wetted components makes this the ideal choice for the metering of aggressive chemicals including ultra-pure water. The standard inlet tubes are barbed to ac-cept two hose sizes 8mm and 12mm althoughfor OEM use alternatives are available. The bearings are made of sapphire for long life and reliability, the body is moulded PVDF as stan-dard and the 'O' ring seal is typically Viton™.



Model	Flow range L/Min	Linearity % FSD	Typical Freq. Hz	Approx 'K' Factor
803	0 05 – 0 5	2.0	142	17000
815	0 12 – 1 5	2.0	175	7000
845	0 2 – 4 5	1.5	260	3500
865	0 25 – 6 5	1.5	230	2100
810	0 3 – 10	1.0	235	1420
824	0 5 – 15	1.0	245	980

Standard Materials of costruction

Body and cap	- PVDF
'O' Ring seal	- Viton
Magnets	- Ceramic
Bearing	- Sapphire

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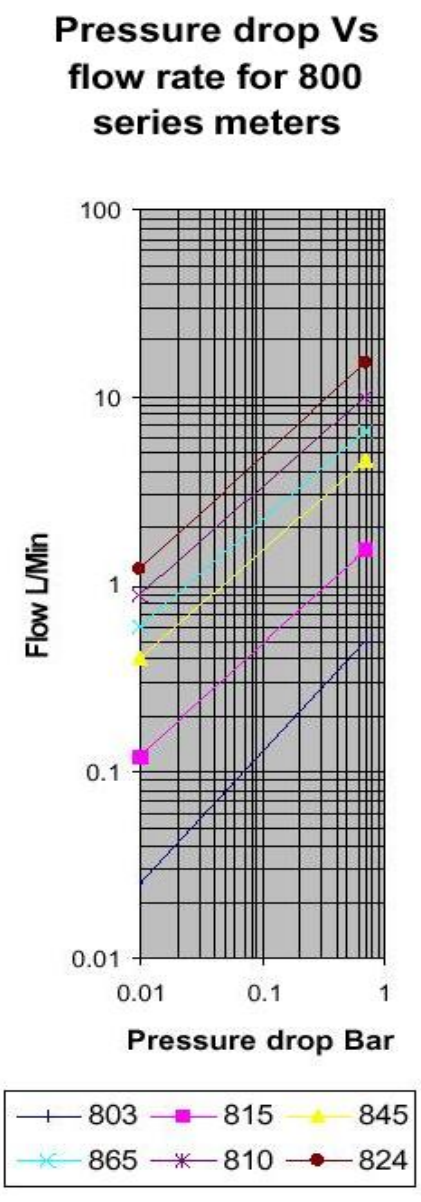
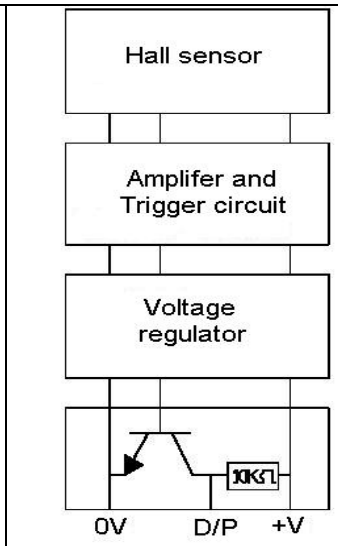
Order Code

Flow range L/Min	'O' ring Mat	Flow switch option	Body material	Special OEM code
803 = 0 05 – 0 5	V = Viton	O =Standard	P =PVDF	O = Standard
815 = 0 12 – 1 5	N = Nitrile	I =Flow switch	O =Special	U = Uncalibrated
845 = 0 2 – 4 5	E = EPDM			
865 = 0 25 – 6 5	S = Silicon			
810 = 0 3 – 10				
824 = 0 5 – 15				

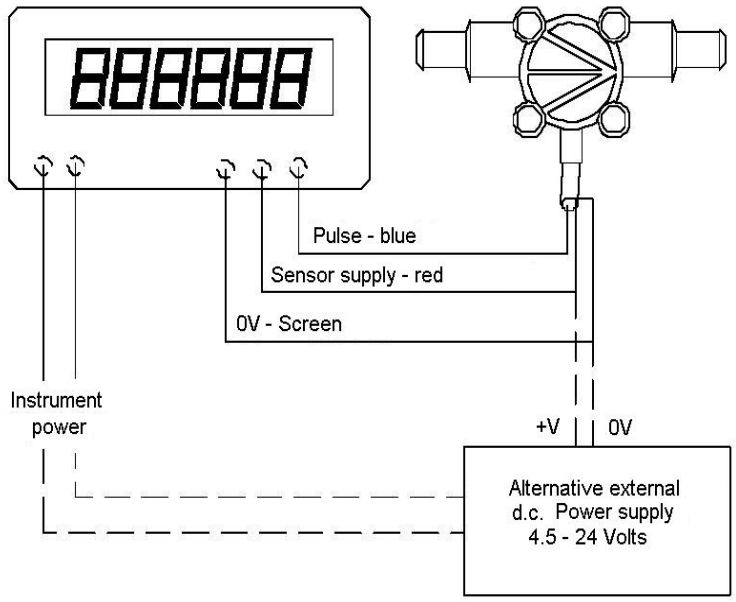
e.g. ***865-VOP-O*** *is a flow range of 0.25 to 6.5 L/Min, viton seal , standard, PVDF bodied flowmeter with a 6 point traceable water calibration.*



At the heart of the meter is a precision turbine that rotates freely on robust sapphire bearings and contains chemically resistant ceramic magnets that are detected through the chamber wall by a Hall effect detector. The output is a 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.



Sensor block diagram



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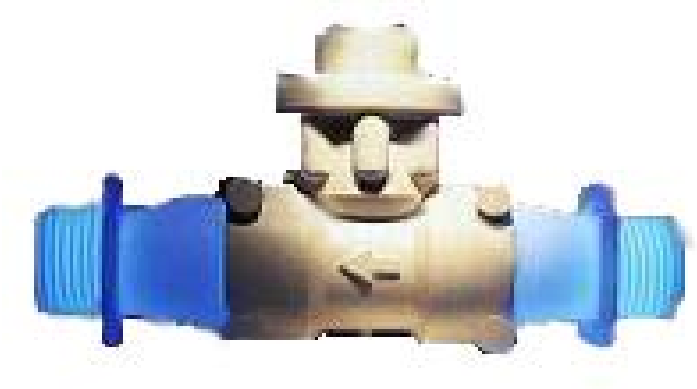
MISURATORI VERSATILI Model FT2
Adaptable Flowmeters

FT2 (Optical) data sheet

- · Economical
- · PPS body
- · ±0.75% reading *
- · 1- 2% FSD
- · Sapphire bearings
- · Optical sensing
- · 10 Flow ranges
- · Pulse output
- · 15 Bar rating
- · Viton seal as standard
- · Choice of fittings
- · 0.1% Repeatability
- · 5 or 7.5 to 24 V dc
- · 80°C Max

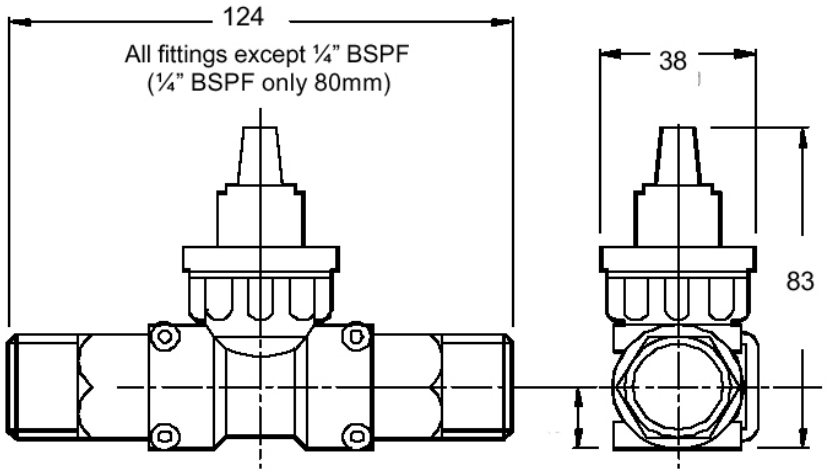
* When used with our Metra-smart instrument



This multi-range radial flow turbine meter uses a low inertia turbine supported on robust sap-phire bearings in a chemically resistant hous-ing. Ten flow ranges (0.01 to 160 litres per min-ute), 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.

Ideal for

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



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ORDER CODE	Flow Range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor
001	0.01 – 0.10	2.0	100	60000
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

Standard Materials of construction

Body and cap - PPS

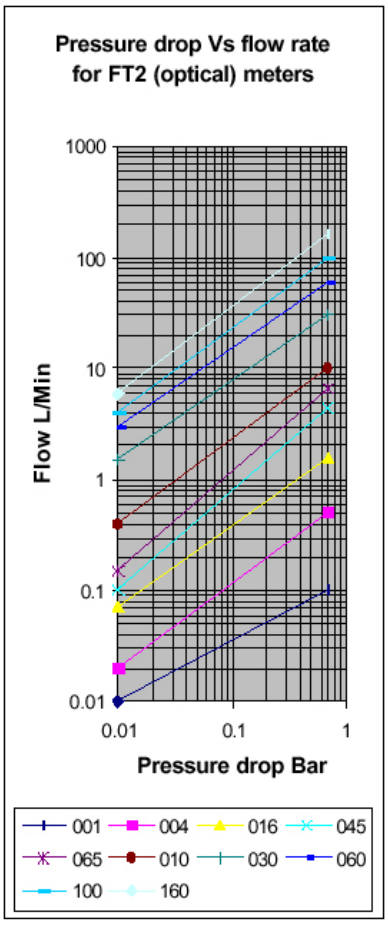
'O' Ring seal - Viton

Bearings - Sapphire

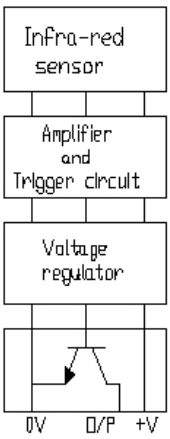
End Fitting - PVDF, PVC, St St, or Brass

Detector Type	Electrical connections	#Flow range L/Min	'O' Ring Material	Fitting size	Fitting Material	Special code
20 = Optical	**0** = rubber	See chart above	**V** = Viton	25 = 1/4" BSP	**B** = Brass	S= Oem
7-24vdc	grommet	**100** etc.	N = Nitrile	50 = 1/2" BSP	S = 316 St St	customer
21 = Optical	P = 4 pin socket		E = EPDM	75 = 3/4" BSP	C = PVC *	
5v dc	N = IP67 Gland		O = Special	**10** = 1" BSP	P = PVDF	
				8H = 8mm hose		
				0H = 13mm hose	* 60°C max.	

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 sap-phire bearings. This rotation is detected when a turbine blade crosses a powerful infra-red light beam. The resulting output is a 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 per-formance figures. Alternatives are possible but there would be degradation in the meters performance.



Sensor block diagram

Fitting	Recommended Max flow L/Min.	PVC	PVDF	Brass	316 St St
8mm hose	4.5	*			
13mm hose	10	*			
¼" BSP female	4.5			*	*
½" BSP male	30		*	*	*
¾" BSP male	100	*	*	*	*
1" BSP male	160	*		*	*

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