## Product information

## FT2 (Hall effect) data sheet

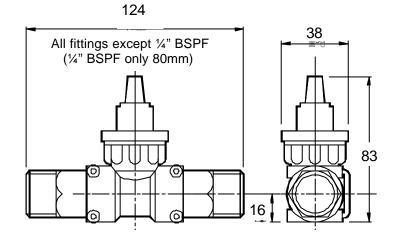
- Economical
- PPS body
- ±0.75% reading \*
- 1-2% FSD
- Sapphire bearings
- Hall effect sensing
- 9 Flow ranges
- Pulse output
- 15 Bar rating
- Viton seal as standard
- Choice of fittings
- 0.1% Repeatability
- 5 to 24 V dc
- 125°C Max
- \* When used with our Metra-smart instrument

## **Ideal** for

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



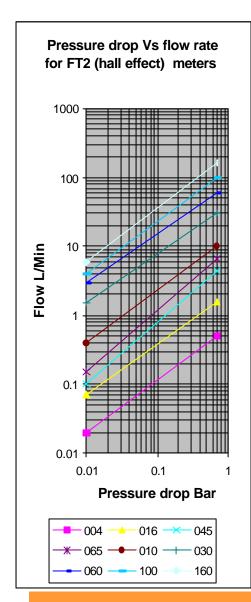
This multi-range radial flow turbine meter uses a low inertia turbine supported on robust sapphire bearings in a chemically resistant housing. Nine flow ranges (0.05 to 160 litres per minute), a choice of "plug in" fittings and individual traceable calibration make this meter one of the most flexible available. It uses Hall effect sensing so that opaque fluids may still be metered. 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.



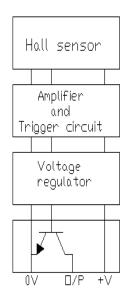
	Flow range L/Min	Linearity % FSD	Typical Freq. Hz.	Approx 'K' Factor	Standard Materials of
016 045 065 010 030 060 100	0 05-05 0 12-16 0 13-45 0 25-65 0 60-10 2.50-30 5.00-60 6.00-100 10.0-160	2.0 1.5 1.5 1.0 1.0 1.5 2.0	133 207 318 260 218 275 275 275 275	16000 7700 4250 2400 1250 550 275 165	construction  Body and cap - PPS 'O' Ring seal - Viton Bearings - Sapphire End fittings - PVDF, PVC, St St, or Brass Magnet - Ceramic

Detector	Electrical	#Flow range	'O' ring	Fitting	Fitting	Special
Туре	connections	L/Min.	Material	size	material	code
22 = Hall effect	<u><b>0</b></u> = rubber	See chart above	<u>V</u> = Viton	25 = 1/4" BSP	<u>B</u> = Brass	S = OEM
	grommet	<u>100</u> etc.	N = Nitrile	50 = 1/2" BSP	S = 316 St St	customer
	P = 4 pin socket		E = EPDM	75 = 3/4" BSP	C = PVC *	
	N = IP67 Gland		O = Special	<u>10</u> = 1" BSP	P = PVDF	
				8H = 8mm hose		
				0H = 13mm hose	* 60°C max	

e.g. 220-100-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 detected by a Hall effect detector. 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 performance 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	*			
1/4" BSP female	4.5			*	*
½" BSP male	30		*	*	*
3/4" BSP male	100	*	*	*	*
1" BSP male	160	*		*	*