

Positive Displacement Flowmeter Selection Guide



Model No.	FPD1000	FTB-30	FTB3000	FPD2000	FPDM1000
Starting Price	\$567	\$395	\$2972	\$1000	\$1052
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Flowmeter Type	Positive Displacement	Positive Displacement	Positive Displacement	Positive Displacement	Positive Displacement
Standard Calibration	Oil	#2, 4, or 6 Oil	100 Centistokes	30 CPS	Oil
Accuracy	1% of Reading	1% of Reading	0.25% of Reading	0.5% of Reading	1% of Reading
Repeatability (Full Scale)	±0.03%	—	—	0.1%	0.03%
Min Flowrate (GPH)	0.13	0.25	1.2	0.18	60
Max Flowrate (GPM)	21	132	25	20	350
Max Pressure (psig)	8000 (-HP)	360	3000	5000	500
Max Temp °C (°F)	120 (248)	127 (260)	232 (450)	204 (400)	120 (248)
Min Temp °C (°F)	-10 (14)	0 (32)	-40 (-40)	-40 (-40)	-10 (14)
Standard Output	Frequency Squarewave	None/Frequency Squarewave	Frequency Sinewave/Squarewave	Frequency Squarewave	None
Optional Outputs with Integral Signal Conditioner	4 to 20 mA	—	—	4 to 20 mA	—
Required Power	4.5 to 24 Vdc	6 to 30 Vdc for output units	4.5 to 24 Vdc for Hall Effect Model	10 to 28 Vdc	—
Connection	1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2 NPT	1/4, 3/8 CF, 1/2, 3/4, 1, 1 1/2 NPT, 2 FLG	1 NPT	1/4, 1/2, 3/4, 1 1/4 NPT	1/2, 1, 1 1/2, NPT 2" Flange
Calibration Certificates	CAL-2 (no points)	CAL-2 (no points)	NIST Included	CAL-2 (no points)	CAL-2 (no points)
Materials of Construction	Aluminum 316 SS or Rytan® models available	Brass body and anodized aluminum piston	316SS body and gears with peek gear seats Bearings: shielded self-lubricating 440 SS ball bearings	Aluminum, 303 SS, 316 SS, PTFE, FKM (optional)	Aluminum, 316 SS, PPS Carbon, Acetal, FKM
Integral Display Available	✓	Totalizer Register	—	—	—
Popular Compatible Meters (See M Section)	DPF700, DPF75	DPF700, DPF75	DPF700, DPF75	DPF700, DPI8	
Additional Features	High viscosity/ High pressure	Totalizer	High viscosity Liquids	High pressure/ Bi-Directional	

Standard requirements for turbine and paddlewheel sensors: A minimum of 10 pipe diameters upstream and 5 downstream, full pipe, clean liquid, flow horizontal or flowing up. Positive displacement meters do not require straight pipe diameters upstream.



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• Temperature

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters