

PLASTIC PADDLEWHEEL FLOWMETERS



FPB1400 Series



- ✓ Easy to Install and Operate
- ✓ Mounts in Any Direction
- ✓ Only One Moving Part
- ✓ Visual Flow Indication
- ✓ Female NPT Ports
- ✓ Polypropylene or PVDF Models



FPB1406-RTD shown smaller than actual size.

Fluid flowing through the FPB1400 causes the paddlewheel to spin. As the magnets embedded in the paddle spin past the sensor, electrical pulses are produced in which frequency is proportional to the flow rate. The number of pulses per desired time interval and the K-factor (number of pulses/gallon) make it is easy to calculate the flow rate and volume passing through the unit.

SPECIFICATIONS

Accuracy: $\pm 1\%$ FS

Maximum Temperature: 60°C (140°F)

Maximum Pressure: 10 bar (150 psig)

Power: 5 to 24 Vdc @ 2 mA

Output Signal: NPN open collector (load 30 mA maximum)

Body Dimensions:

56 H x 108 L x 53 mm D
(2.2 x 4.25 x 2.2")

Cable: Flow 1.8 m (6'), RTD 0.3 m (1') (-RTD models)

RTD: Platinum 0.00385 TCR, meets EN 60751, Class B (-RTD models)

Maximum Pressure Drop: 15 psi on size 2 units 20 psi on all other sizes

Viscosity: Calibrated 1 cSt, up to 50 cSt with field calibration

Response Time: At 1 sec 10 to 90% of full scale, at 2 sec below 10% of full scale

Wetted Materials

Polypropylene Models

Body: Polypropylene

LID: Acrylic

Paddlewheel: PVDF

Shaft: Nickel tungsten carbide

Bearings: Sapphire jewels

O-Rings: EPDM

RTD: 316 SS casing

PVDF Models

Body: PVDF

LID: PVDF

Paddlewheel: PVDF

Shaft: Zirconia ceramic

Bearings: Sapphire jewels

O-Rings: PTFE

RTD: 316 SS casing (-RTD models)

To Order

Model No.	Description	Model No. with RTD	Ports NPT	Maximum Difference Pressure bar (psi)	Range GPM
FPB1402	Polypropylene flowmeter	FPB1402-RTD	3/8	1 (15)	0.5 to 5
FPB1404	Polypropylene flowmeter	FPB1404-RTD	1/2	1.4 (20)	1 to 10
FPB1406	Polypropylene flowmeter	FPB1406-RTD	3/4	1.4 (20)	2 to 20
FPB1408	Polypropylene flowmeter	FPB1408-RTD	1	1.4 (20)	3.5 to 35
FPB1412	PVDF flowmeter	FPB1412-RTD	3/8	1 (15)	0.5 to 5
FPB1414	PVDF flowmeter	FPB1414-RTD	1/2	1.4 (20)	1 to 10
FPB1416	PVDF flowmeter	FPB1416-RTD	3/4	1.4 (20)	2 to 20
FPB1418	PVDF flowmeter	FPB1418-RTD	1	1.4 (20)	3.5 to 35

Accessory

DPF701	1/8 DIN digital display, 115 Vac 7.5 to 13 Vdc powered
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Comes complete with operator's manual.

Ordering Example: FPB1408, polypropylene flowmeter with DPF701, digital display meter.

FPB1406-RTD, polypropylene flowmeter with RTD temperature sensor and DPF701, digital display meter.