LIQUID FLOW SENSORS FOR VISUAL INDICATION, REMOTE SENSING, AND FLOW ALARM



FPR100 Series Starts at

\$**42**



- Low Cost
- Pulse or Alarm Output Optional
- ✓ For Flows from 0.1 to 30.0 GPM
- ✓ Flow Switch Rotor Cannot Seize in "ON" State
- Integral Mounting Holes Standard

The rugged, low-cost FPR100 Series sensors feature a one-piece composite rotor, sturdy unibody construction, ceramic shafts, and superior sealing. The FPR110 sensors, with bright orange spinning rotors, provide visual indication of flow only. The FPR120 Series features visual indication and an adjustable 0.5 A @ 110 Vac SPDT mechanical flow switch. The FPR130 Series has visual indication and a square-wave pulse output for

use with remote ratemeters/totalizers, such as the DPF700 Series meters.

For panel mounting, all polypropylene units come with mounting ears that accept #8 self-tapping screws; all brass units come with mounting holes that accept #8-32 UNC-2B screws. For all FPR100 sensors, incoming flow can be directed to either port; a minimum of 8 inches of straight inlet pipe is required. Filtration of 150 microns is recommended.



SPECIFICATIONS

Wetted Parts: Brass or hydrolytically stable glass-reinforced polypropylene body; ceramic rotor pin; nylon composite rotor; polysulfone lens; and Buna-N O-ring with polypropylene body, Viton® O-ring with brass body

Max Pressure:

Polypropylene: 100 psig, 40 psig @ 100°C (212°F)

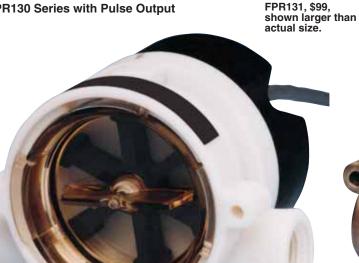
Brass: 200 psig

Max Liquid Temperature:

FPR120, **FPR130**: 82°C (180°F) **FPR110**: 100°C (212°F)

FPR133, \$151, shown

larger than actual size.





Max Pressure Drop: 11 psid **Max Ambient Temperature:** FPR120, FPR130: 65.6°C (150°F) Max Liquid Viscosity: 200 SSU FPR120 Power: 12 Vdc, 24 Vdc, or 110 Vac (per model number) **FPR130 Pulse Output:**

Pulse amplitude = DC power input

FPR130 Pulse Output Range:

12 Hz @ lowest flow rate of both ranges; 225 Hz @ highest flow

rate of both ranges

FPR120, FPR130 Repeatability:

2% of rate FPR130 Power:

4.5 to 24 Vdc @ 70 mA max

FPR120 SPDT Switch Rating (Resistive): 0.5 A @ 110 Vac; 1 A @ 24 Vdc

FPR120 Setpoint Deadband: 15% of rate Weight:

PP Body: FPR110, 340 g (12 oz);

FPR120, 454 g (1 lb);

FPR130, 397 g (14 oz) **Brass Body:** FPR110, 680 g (1.5 lb),

FPR-120, 907 g (2 lb)

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)						
Sensor with Visual Indication Only						
Model			Port Size		Flow Ranges (GPM)	
Number	Price	Body Material	NPT	Input Power	Low Range*	Std. Range
FPR111	\$42	Polypropylene	0.25	_	0.1 to 1	0.5 to 5
FPR112	42	Polypropylene	0.50	_	1.5 to 12	4.0 to 20
FPR113	120	Brass	0.25	_	0.1 to 1	1.0 to 6
FPR114	120	Brass	0.50	_	1.5 to 12	4.0 to 20
FPR115	120	Brass	0.75	_	_	6.0 to 30
Sensor with Visual Indication and Flow Switch						
FPR121	\$165	Polypropylene	0.25	12 Vdc		
FPR122	172			24 Vdc	0.1 to 1.0	0.5 to 5
FPR123	195			110 Vac		
FPR124	165		0.50	12 Vdc	1.5 to 12.0	4.0 to 20.0
FPR125	172			24 Vdc		
FPR126	195			110 Vac		
Sensor with Visual Indication and Pulse Output				K Factor Low - High	Accuracy (% of Full Scale)	
FPR131 [†]	\$99	Polypropylene	0.25	10,900 - 2196	0.1 to 1 (±7%)	0.5 to 5 (±7%)
FPR132 [†]	99	Polypropylene	0.50	959 - 611	1.5 to 12 (±7%)	4 to 20 (±15%)
FPR133 [†]	151	Brass	0.25	10,080 - 1529	0.1 to 1 (±7%)	0.5 to 5 (±7%)
FPR134 [†]	151	Brass	0.50	971 - 627	1.5 to 12 (±7%)	4 to 20 (±15%)
FPR135 [†]	151	Brass	0.75	243 - 243	_	6 to 30 (±15%)

Comes with complete operator's manual.
* With use of low flow adaptor (included).

Ordering Example: FPR124, flow sensor with visual indication and flow switch, polypropylene body, 0.50 NPT port size, 1.5 to 12 GPM low range, 4 to 20 GPM standard range, powered by 12 Vdc, \$165.

[†] Pull-down resistor required.

omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

www.omega.co.uk



UNITED STATES

www.omega.com 1-800-TC-OMEGA Stamford, CT.

CANADA

www.omega.ca Laval(Quebec) 1-800-TC-OMEGA

GERMANY

www.omega.de Deckenpfronn, Germany 0800-8266342

UNITED KINGDOM

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622

www. omega.co.uk Manchester, England 0800-488-488 +44-(0)161-777-6611

FRANCE

www.omega.fr 0800-466-342

BENELUX

www.omega.nl 0800-099-33-44



Sales@omega.co.uk

More than 100,000 Products Available!

Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

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

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ehernet 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, Pressure Transmitters, Strain Gauges, 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