LIQUID MICRO-FLOW SWITCHES



- Economical
- Extremely Low Flow
- Pelton-Type Microturbine
- Plastic or Metal Housing

High/Low Alarms

The FSW530 Series flow switches are capable of detecting extremely low liquid flow rates from 13 mL/ minute up to 10 L/minute with a full scale switch accuracy of ±1.0% or better! A wide variety of fluids may be measured. Repeatable results are achieved using a patented pelton-type microturbine wheel. This proven design has a well deserved reputation for continuous operational service for many years without failure. Because of the compact size and economical cost of these products, the FSW530 models are suitable for a wide variety of industrial, commercial, laboratory and OEM applications. Some sample applications include high/low alarms for hydrocarbon fluids, fuels, light oils, solvents, coolant, pesticides, mild acids, alkalis, and de-ionized water. Either plastic or metal construction may be selected.

SPECIFICATIONS

Accuracy: ±1% FS Repeatability: ±0.5% FS Recommended Liquids: Low viscosity (<10 cS), translucent or transparent chemically compatible with a minimal amount of entrained air Fittings: Acetal or stainless steel O-rings: FKM, EPDM (optional) Power: 12 to 24 Vdc @ 40 mA (plus load) Maximum Pressure: Acetal: 6.9 bar (100 psig)

Stainless Steel: 34.5 bar (500 psig) Enclosure: NEMA 1 (IP10)

Recommended Filtration:

25 microns or less

Relay: FET switch 24 Vdc, 250 mA



Response Time: <1 second at 97% of final value

Switching Hysteresis: $\pm 2.0\%$ full scale Dimensions: 60 x 55 x 90 mm (2.4 x 2.2 x 3.5")

Temperature:

Operation: 5 to 55°C (41 to 131°F) **Storage:** 0 to 70°C (32 to 158°F) Temperature Sensitivity: ±0.2% FS or less per °C Watted Materiala: Puter or 216 SS

Wetted Materials: Ryton or 316 SS, epoxy, glass, sapphire and FKM or EPDM (optional)

MOST POPULAR MODELS HIGHLIGHTED

B

To Order (Specify Model Number)

	(0)0000)	
Model No.	Price	Description
FSW531	\$205	Acetal flow switch 20 to 100 mL/min, 3.18 mm (1/8") fitting
FSW532	205	Acetal flow switch 30 to 200 mL/min, 6.35 mm (1/4") fitting
FSW533	205	Acetal flow switch 60 to 500 mL/min, 6.35 mm (1/4") fitting
FSW534	205	Acetal flow switch 120 to 1000 mL/min, 6.35 mm ($1/_4$ ") fitting
FSW535	205	Acetal flow switch 300 to 2000 mL/min, 6.35 mm ($1/_4$ ") fitting
FSW536	265	Acetal flow switch 0.6 to 5.0 L/min, 9.53 mm (3/8") fitting
FSW537	290	Acetal flow switch 1.1 to 10 L/min, 9.53 mm (3/8") fitting
FSW531-S	325	SS flow switch 20 to 100 mL/min, 3.18 mm (1/8") fitting
FSW532-S	325	SS flow switch 30 to 200 mL/min, 6.35 mm (1/4") fitting
FSW533-S	325	SS flow switch 60 to 500 mL/min, 6.35 mm (1/4") fitting
FSW534-S	325	SS flow switch 120 to 1000 mL/min, 6.35 mm (1/4") fitting
FSW535-S	325	SS flow switch 300 to 2000 mL/min, 6.35 mm (1/4") fitting
FSW536-S	385	SS flow switch 0.6 to 5.0 L/min, 9.53 mm (%") fitting
FSW537-S	410	SS flow switch 1.1 to 10 L/min, 9.53 mm (3/8") fitting

Comes complete with operator's manual.

For models with EPDM O-rings add suffix "-EPDM" to the model number and \$30 to price. Ordering Examples: FSW531, acetal liquid flow switch 20 to 100 mL/min and PSS-12, 12 Vdc power supply, \$205 + 150 = \$355.

FSW533-S, SS liquid flow switch, 60 to 500 mL/min and **PSS-12**, 12 Vdc power supply, \$325 + 150 = **\$475**.

For more information on PSS-12 visit omega.com/pss-5a

omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

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 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



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