

LIQUID MICRO-FLOW SWITCHES

FSW530 Series

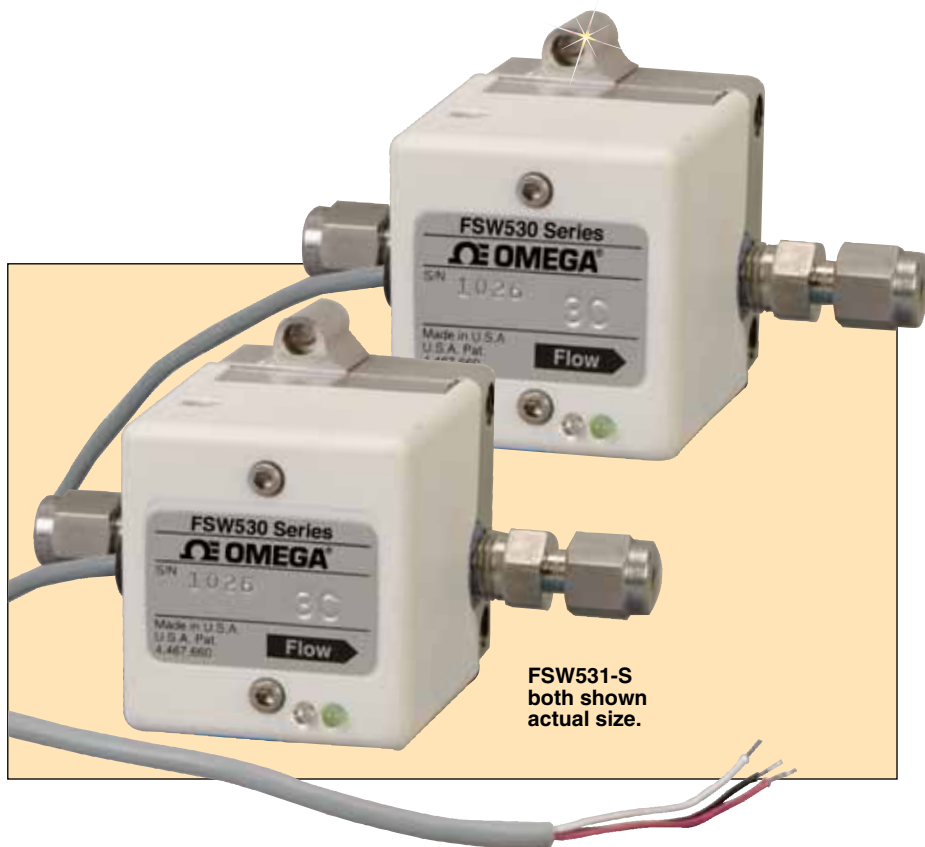


- ✓ Economical
- ✓ Extremely Low Flow
- ✓ Pelton-Type Microturbine
- ✓ Plastic or Metal Housing
- ✓ High/Low Alarms

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 $\pm 1.0\%$ 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:** $\pm 1\%$ full scale
- Repeatability:** $\pm 0.5\%$ full scale
- 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



FSW531-S both shown actual size.

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: $\pm 0.2\%$ FS or less per °C

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

To Order	
Model No.	Description
FSW531	Acetal flow switch 20 to 100 mL/min, 3.18 mm (1/8") fitting
FSW532	Acetal flow switch 30 to 200 mL/min, 6.35 mm (1/4") fitting
FSW533	Acetal flow switch 60 to 500 mL/min, 6.35 mm (1/4") fitting
FSW534	Acetal flow switch 120 to 1000 mL/min, 6.35 mm (1/4") fitting
FSW535	Acetal flow switch 300 to 2000 mL/min, 6.35 mm (1/4") fitting
FSW536	Acetal flow switch 0.6 to 5.0 L/min, 9.53 mm (3/8") fitting
FSW537	Acetal flow switch 1.1 to 10 L/min, 9.53 mm (3/8") fitting
FSW531-S	SS flow switch 20 to 100 mL/min, 3.18 mm (1/8") fitting
FSW532-S	SS flow switch 30 to 200 mL/min, 6.35 mm (1/4") fitting
FSW533-S	SS flow switch 60 to 500 mL/min, 6.35 mm (1/4") fitting
FSW534-S	SS flow switch 120 to 1000 mL/min, 6.35 mm (1/4") fitting
FSW535-S	SS flow switch 300 to 2000 mL/min, 6.35 mm (1/4") fitting
FSW536-S	SS flow switch 0.6 to 5.0 L/min, 9.53 mm (3/8") fitting
FSW537-S	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, for additional cost.

Ordering Examples: FSW531, acetal liquid flow switch 20 to 100 mL/min and PSS-12, 12 Vdc power supply.

FSW533-S, SS liquid flow switch, 60 to 500 mL/min and PSS-12, 12 Vdc power supply.