

# TRIM TO SIZE PADDLE TYPE LIQUID FLOW SWITCH

FSW-25  
**\$250**



- ✓ **Aluminum Alloy NEMA4 (IP65) Head**
- ✓ **Easy to Install**
- ✓ **Less than 3 psig Pressure Drop**

The FSW-25 flow switch utilizes the force of liquid flow to propel its paddle and to detect the incoming flow or movement of the existing liquid in the pipe. In static liquid or no liquid, the spring is in expanded and presses the magnet downward. The reed switch is normally open.

As flow occurs and the paddle is raised at an upward angle of 20 to 30 degrees (or more), the paddle will push the magnet upward to actuate the reed switch which then closes the circuit.

The length of the paddle can be adjusted to the diameter of the pipe. 1" trim size can only be used with metal pipes.

The installation is simple. Cut the paddle to desired pipe size. No smaller than 1" pipes for metal pipes. The FSW-25 is not recommended to be used in 1 NPT plastic pipe (1¼ is the minimum for plastic pipes). Before installing the unit to a tee pipe, be sure to apply tape seal to the screw then tighten up. The FLOW mark on the screw hexagon must be parallel to the pipe and the ground.

## SPECIFICATIONS

- Housing Material:** Aluminum Alloy, NEMA 4 (IP65)
- Operation Temp.:** -30 to 150°C (30 to 300°F)
- Paddle Material:** SUS304 (Similar to 304 SS)
- Operation Pressure:** 355 psig
- Pressure Drop Allowance:** 3 psig
- Set Point Tolerance:** ± 25%
- Repeatability Tolerance:** ± 5%
- Contact Capacity:** 30 Watts/200 Vdc, SPDT
- Max Viscosity:** 200 SSU or 43 centistokes

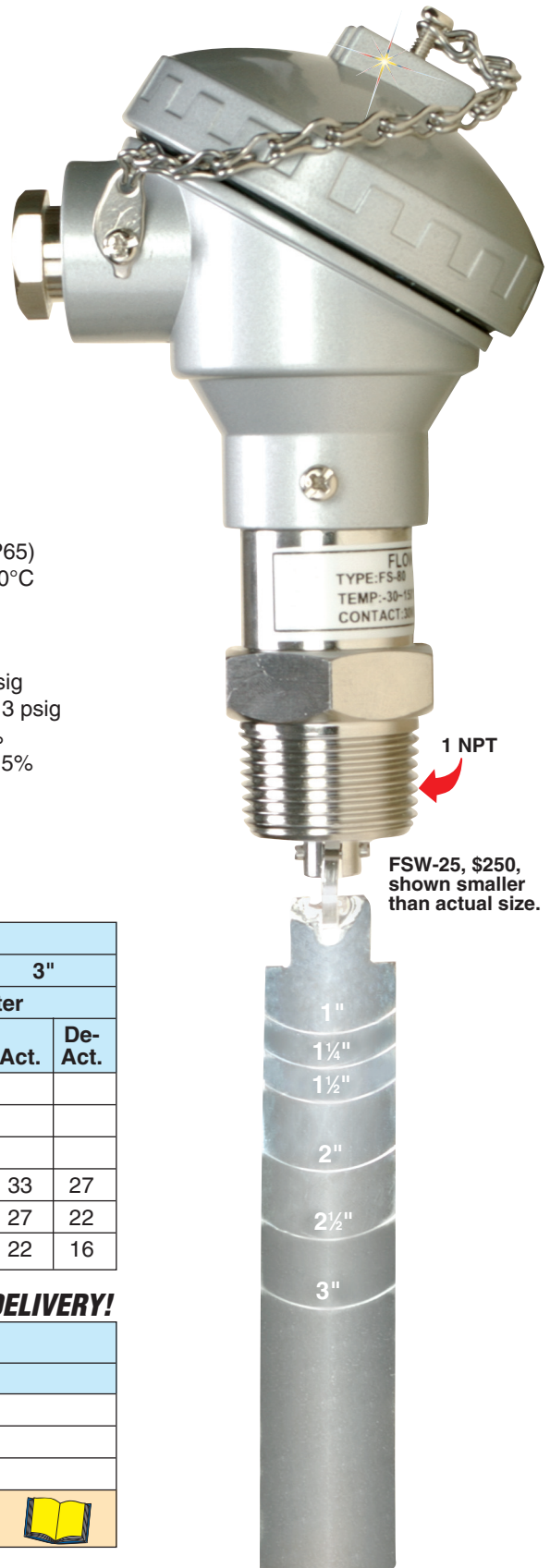
## Standard Actuation and De-Actuation Setpoints

Paddle Length	Pipe Line Size											
	1"	1¼"	1½"	2"	2"	3"						
<b>Approximate Actuation and De-Actuation Flow Rates—GPM Water</b>												
	Act.	De-Act.	Act.	De-Act.	Act.	De-Act.	Act.	De-Act.	Act.	De-Act.	Act.	De-Act.
1	5	4	8.5	6.5	12	9	17	15				
1¼			6.5	4.5	9	7	15	12	23	20		
1½					14	10	23	16	32	25		
2							18	12	24	17	33	27
2½									20	13	27	22
3											22	16

**AVAILABLE FOR FAST DELIVERY!**

<b>To Order (Specify Model Number)</b>		
Model No.	Price	Description
FSW-25	\$250	Paddle flow switch with head
70A-1	18	Audible alarm
SSRL240AC10	25	10 Amp solid state relay
OP-9	135	Reference Book: Flow Measurement Engineering Handbook

Comes complete with operator's manual.  
**Ordering Example: FSW-25, flow switch, \$250.**



# omega.co.uk<sup>®</sup>

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](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### BENELUX

[www.omega.nl](http://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, Ethernet 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