

THERMAL DISPERSION FLOW SWITCHES FOR LIQUIDS

FST-200 Series Starts at

\$185



- ✓ High Reliability—No Moving Parts
- ✓ Very Low Flow Detection—Down to 0.04 FPS Liquids
- ✓ Use in 1/8 to 12" Pipe or Tubing
- ✓ SPST Relay Standard
- ✓ Excellent for Pump and Valve Monitoring of Critical Flows

OMEGA® FST-200 Series flow switches use thermal dispersion technology to create a very accurate and economical method of sensing flow. Monitor fluids from 0.4 to 1.2 specific gravity, 1 to 300 cp, and pulsating flow from 10 to 100 pulses per minute. The sensors incorporate two temperature probes, one of which is heated. The flow of liquid reduces the temperature of the heated probe, decreasing the temperature differential with the non-heated probe. OMEGA's LVCN Series of controllers can easily be interfaced to perform a variety of control functions, see page B-90 for details.

SPECIFICATIONS

Range: 0.04 to 3 fps (liquids),

Accuracy: ±5% of setpoint at constant temperature and flowrate

Response Time: 10 sec after initial 30 sec warm up

Setpoint Drift With Fluid

Temperature: 0.5% per °C

Voltage Input: 12 to 36 Vdc @ 70 mA

Contact Output Mode:

Selectable, NO or NC states

Fluid Temperature: 0 to 60°C (32 to 140°F)

Max. Fluid Pressure: PP or PVDF: 150 psi @ 25°C (77°F) derated @ 1.667 psi per °C above 25°C (77°F)

Wetted Materials:

PP and PVDF

FST-221-SPST, \$195, shown actual size.



FST-211-SPST, \$185, shown actual size.

Cable Specifications: 3 m (10')
Max Cable Length: 305 m (1000')

Dimensions:
76.2 or 114.3 L x 26.7 mm dia.
(3.0 or 4.5 x 1.05")

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description	Mat'l	Size	Use With Pipe Size
FST-211-SPST	\$185	Thermal dispersion flow switch	PP/PVDF	3.0 x 3/4 NPT	3/4 to 1 1/2"
FST-212-SPST	295	Thermal dispersion flow switch	PVDF	3.0 x 3/4 NPT	3/4 to 1 1/2"
FST-221-SPST	195	Thermal dispersion flow switch	PP/PVDF	4.5 x 3/4 NPT	2 to 12"
FST-222-SPST	305	Thermal dispersion flow switch	PVDF	4.5 x 3/4 NPT	2 to 12"
FW-306	125	Reference Book: Valve Handbook			



Flow Switch Fittings For Use with 76 mm (3") Sensor Only (Also For Pulsating Flow Applications)

Model No.	Price	Wetted Material	Use With Range (GPM)	Pipe/Tube ID
FT-51	\$50	PP	0.05-1.53	1/8 to 1/4"
FT-52	90	PVDF	0.10-6.53	1/8 to 1/4"

Comes complete with operator's manual.

Two extended cable lengths available: for 7.62 m (25') add suffix "-25" and \$20 to price for PP/PVDF, or \$75 for PVDF; for 15.24 m (50') add suffix "-50" and \$40 to price for PP/PVDF or \$150 for PVDF.

Sizes above 1/2" fit into 3/4 NPT fitting adaptor.

Ordering Examples: FST-211-SPST, flow switch, 3.0 x 3/4 NPT size, plus FT-51, fitting, \$185 + 50 = \$235.

FST-221-SPST, flow switch, 4.5 x 3/4 NPT, \$195



UNITED STATES

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1-800-TC-OMEGA
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• 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

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• 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, Strain Gages, 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