FST-200 Series Starts at





THERMAL DISPERSION

- High Reliability— **No Moving Parts**
- ✓ Very Low Flow **Detection-Down to** 0.04 FPS Liquids
- ✓ Use in ½ 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



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 ¾ NPT	3/4 to 11/2"		
FST-212-SPST	295	Thermal dispersion flow switch	PVDF	3.0 x ¾ NPT	3/4 to 11/2"		
FST-221-SPST	195	Thermal dispersion flow switch	PP/ PVDF	4.5 x ¾ NPT	2 to 12"		
FST-222-SPST	305	Thermal dispersion flow switch	PVDF	4.5 x ¾ 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	½ to ¼"

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 + \overline{5}0 = 235 .

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

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