## THERMAL DISPERSION FLOW SWITCHES FOR USE WITH GASES



OMEGA's FST-320 Series thermal dispersion flow switches, especially designed for use with gases, sense changes in the heat transfer characteristics of the gases. Flow velocities from 1 to 90 fps are effectively monitored. The flow switch incorporates a standard SPST Relay switch output for control flexibility. OMEGA® controllers can easily be interfaced to perform a variety of control functions. The FST-320 family of sensors can be easily installed in line sizes ranging from ¾ to 12".

## **SPECIFICATIONS**

Range: 1 to 90 fps

Accuracy: ±5% of setpoint at constant

temperature and flow rate
Response Time (Approx.):
10 sec, after initial 30 sec warm up
Set Point Drift with Fluid

Temperature: 0.5% per °C Voltage Input: 12 to 36 Vdc @ 70 mA

Contact Output:

Selectable, NO or NC states

Fluid Temp. Rating:

0 to 60°C (32 to 140°F)

Maximum Fluid Pressure:

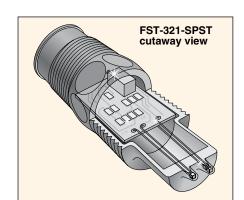
PP: 150 psi @ 25°C (77°F) derated @ 1.667 psi per °C above 25°C (77°F) Contact Materials: Polypropylene (PP)

with PVDF

Cable Length: 3 m (10')

**Maximum Cable Run:** 305 m (1000') **Dimensions:** 76.2 or 114.3 x 26.7 mm

(3.0 or 4.5 x 1.05"), 3/4 NPT



To Order			
Model No.	Material	Size	Use with Pipe Size
FST-321-SPST	PP/PVDF	3" x ¾ NPT	3⁄4 to 11⁄2"
FST-322-SPST	PVDF	3" x ¾ NPT	3/4 to 11/2"
FST-323-SPST	PP/PVDF	4.5" x ¾ NPT	2 to 12"
FST-324-SPST	PVDF	4.5" x ¾ NPT	2 to 12"

Comes complete with operator's manual.

Two extended cable lengths available: for 7.62 m (25') add suffix "-25" for additional cost PP/PVDF, or PVDF; for 15.24 m (50') add suffix "-50" for additional cost, for PP/PVDF or for PVDF.

**Ordering Examples: FST-321-SPST**, polypropylene flow switch. **FST-323-SPST**, polypropylene flowswitch, 4.5 x  $\frac{3}{4}$  NPT.