



THERMO-FLO™ LIQUID FLOW SWITCH

- Solid State Flow Detection and Switching from .04 to 3 fps.
- The reliable solution for pump and process protection
- Adjustable switch point with LED indicator for flow status
- Sensor is not damaged by abnormally high flow velocities
- All plastic construction with PP/Ryton or PVDF materials
- Sensor and cable rated NEMA 4X for corrosive environments
- Relay or FET switch output for interface with PLC, SCADA or alarms
- Available in two probe lengths for maximum installation flexibility
- Selectable normally open or normally closed output states



SPECIFICATIONS

Set point range:	.04 - 3 fps (.012 to .91 mps)
Factory set point:	.2 fps (.06 mps)
Set point drift:	.5% of set points
Repeatability:	± 5% of set points
Response time:	1-10 seconds
Viscosity range:	1-300 centipoise
Supply voltage:	12-36 VDC
Consumption:	Relay: 70 mA FET: 50 mA
Relay rating:	60 Vdc/Vac @ 1A
FET rating:	36 Vdc @ 100 mA
Switch output:	Selectable NO or NC states
Set point adjust.:	Potentiometer
Indication:	LED for flow status
Temp. rating:	F: -32° to 140° C: 0° to 60°
Pressure rating:	150 psi @ 25 °C., derated @ 1.667 psi per °C. above 25 °C.
Sensor material:	PP/Ryton or PVDF
Sensor rating:	NEMA 4X / IP65
Mounting threads:	3/4" NPT (3/4" G)
Mounting gasket:	Viton (3/4") metric
Cable type:	8 ft. (2.5 m), 4-wire (relay) or 3-wire (FET), 22 gauge with ground, shield & PP or PFA jacket
CE compliance:	EN 50082-2 immunity EN 55011 emission

General Purpose	Yes	PVDF	Option
Clean	Yes	Relay	Option
Non-coating	Yes	FET	Option
Low viscosity	Yes	Intrinsically safe	No
Low temperature	Yes	Coating	No
Med. temperature	Yes	Bubbles	No
Low velocity	Yes	Δ temperature	No
High velocity	Yes	High temperature	No
Short sensor	Option	Med. viscosity	No
Long sensor	Option	High viscosity	No
PP/Ryton®	Option		

The thermal dispersion flow switch measures liquid temperature to determine changes in flow velocity. As liquid flows across the sensing tip, the temperature is reduced proportionately as a function of the flow rate. When a temperature or velocity shift reaches the used defined set point, the FET switch changes state indicating the appropriate flow condition.

Liquid Flow Switch		STARTS FROM
FT10 - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		\$ 160
Sensor Material	1 - PP	Add \$ _____
	5 - PVDF (add \$100)	Add \$ _____
Sensor Length	3 - Short	Add \$ _____
	4 - Long (add \$10)	Add \$ _____
Mounting Thread (1) (2)	0 - 3/4" NPT	Add \$ _____
	2 - 3/4" G (add \$5)	Add \$ _____
Switch Output (3)	2 - FET, N-channel	Add \$ _____
	3 - FET, P-channel	Add \$ _____
	5 - Relay, SPDT (add \$20)	Add \$ _____
Total		\$ _____

The G thread sensor comes with a 3/4" Viton mounting gasket.

The above mentioned prices are based on a standard 8' cable length. Longer cable lengths may be special ordered with the following price adders: 25' cable, add \$15.00 for PP or \$50.00 for PVDF switches; 50' cable, add \$30.00 for PP or \$100.00 for PVDF switches.

Pulse-Point liquid flow switch fittings may be purchased separately. For PP, order the FT50-1000 for \$40.00. For PVDF, order the FT50-5000 for \$80.00.

FLOWLINE

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This document is provided for reference and is believed to be accurate at the time of publication. However, Flowline reserves the right to change the product specifications at any time without notice. Additional information may be obtained on the Internet at <http://www.flowline.com> or by contacting Flowline.

LEVEL SUPERSTORE