Thermal Dispersion Flow Switch

Thermal flow switches are based on heat transfer. One sensor is at the process temperature and the other is being heated by a constant power. As the flow rate increases, the temperature difference between the sensors decreases. A set point is established so when that specific temperature difference is reached the relay changes state. This can be on either increasing or decreasing flow or flow/no flow. When used in a level or interface application it is primarily the thermal conductivity of the fluid that will provide the difference in heat transfer.

FEATURES

Simple to Install and Low Cost
No Moving Parts-Maintenance Free Reliability
Optimal Temperature Compensation — Unaffected by Temperature Gradient
Can Operate in Temperatures up to 120°C (248°F) with Sanitary Option
Have a Maximum Working Pressure of 4,300 PSI (300 bar)
Chain of 8 LEDs- Integrated Flow Rate/Set point Indication
Can Be Used as a Level Switch

SPECIFICATIONS

Accuracy: ±10% of set point
Repeatability: ±1% of set point
Power Supply: 85 to 240 Vac (50/60 Hz), 24 Vdc ±10%
Temperature Range: Process: -20 to 80°C (-4 to 176°F) [sanitary option to 120°C (248°F)
Operating: -20 to 60°C (-4 to 140°F)
Max Pressure: 300 bar
Protection Class: IP65
Wetted Materials: 316 SS
Enclosure Material: SS 304, Aluminum die cast
Process Connection: ½ to 1½ NPT or flange
Output: 250 Vac SPDT 5 A relay
Switch Point Adjustment: Potentiometer

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