• Simple field configurable unit for mass flow, level, and/or temperature of liquids or gasses with time delay adjustable from 0 to 300 sec.
• Wide operating temperature range -100°F to +850°F (-70°C to +458°C).
• Field selectable operating power 110VAC, 220VAC, or 24VDC.
• Removable, plug in electronics.

• Can be configured with 2 independent outputs, such as level or mass flow with temperature or two mass flow rates
• Can be used for either gas or liquid applications including interface detection.
• Self heating sensor design. No separate heater to establish thermal differential.
• Two Year Workmanship Warranty.
**MODEL VS5100**

**FULL FEATURED VERSA-SWITCH®**

**SPECIFICATIONS**

**Sensor**

*Type:*
Thermal Differential, dual RTD sensors with no separate heater

*Process Connection:*
Standard 0.75 inch MNPT
Optionally 0.25 inch and larger NPT and various other process connections such as sanitary and flanges

*Insertion Length:*
Standard 2.0 inch
Optionally 0.5 inch or greater

*Operating Temperature Range:*
Standard -100°F to 390°F (-70°C to +200°C)
Medium Temperature to +572°F (+300°C)
High Temperature to +850°F (+458°C)

*Materials of Construction:*
Standard 316L Series Stainless Steel
Optionally Hastelloy, Monel, Inconel and other exotic materials

*Operating Pressure Range:*
Standard to 3000 psia (207 bar)

**Electronics**

*Power:*
Standard Field selectable 110VAC, 220VAC, or 24VDC at 3 watts (No heater power required) Optionally 24VAC

*Operating Temperature Range:*
Standard -40°F to +140°F (-40°C to +60°C)
Optionally Remote electronics for use in higher temperature environments.

*Outputs:*
Independent primary relay DPDT and secondary relay SPDT, contacts rated at 5 amp, 250 VAC with fail safe capability; built in time delay 0 to 300 seconds for each channel.

*Self-Test:*
Integral and automatic during power up.

*Failure Alarm Option:*
Continuous monitoring circuit to alarm should a failure condition of any sensor, component, wiring, or power occur. (Uses second channel of the VS5100)

*Enclosure:*
Explosion proof; NEMA 3, 4, 4x, 7, and 9; CSA, FM, UL, CENELEC, and EECS approved

**Instrument**

*Operating Range:*
Flow 0.01 to 5.0 fps in liquids and 0.1 to 500 fps in gases. Level change as small as .03 inch. Temperature -70°C to +458°C +/- 1°C.

*Response Time:*
Media dependent 0.5 to 10 seconds.

*Approvals:*
CSA Class 1 Div. 1 Groups B,C,&D Class 2
Div. 1 E,F,&G with T4A Temp rating.

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