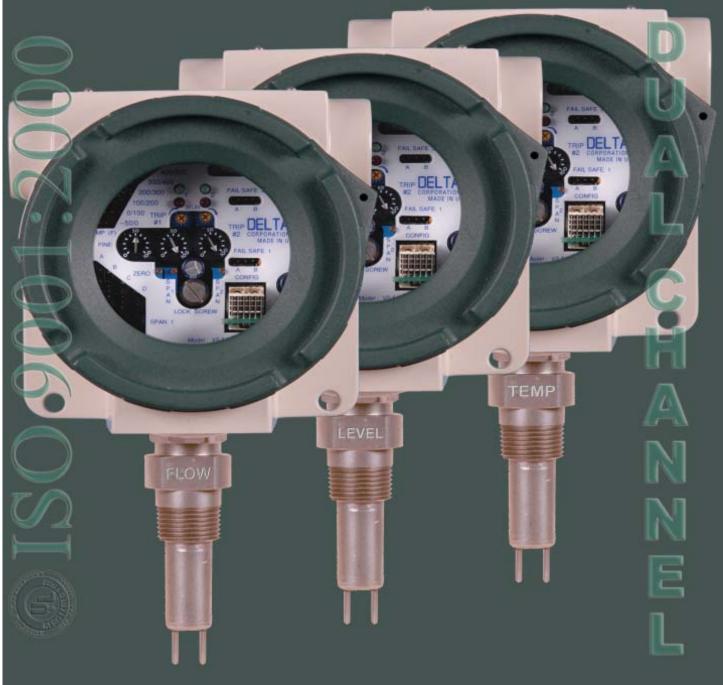


VERSA-SWITCH® MODEL VS5100 MASS FLOW - LEVEL - TEMPERATURE



- 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

Model Number Selection Guide

FULL FEATURED VERSA-SWITCH®

SPECIFICATIONS

Sensor

Type:

Thermal Differential, dual RTD sensors with no seperate 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 $+200^{\circ}$ C) Medium Temperature to $+572^{\circ}F$ ($+300^{\circ}C$) 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 $+140^{\circ}$ F (-40° C to $+60^{\circ}$ 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 $+458^{\circ}$ C $+/-1^{\circ}$ 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.

Model

VS5100 - Dual Channel VERSA-SWITCH® VS51NX- Dual Channel Without Approvals Code - Process Connection 3A1 - 1.5 Inch Sanitary w/3A Stamp 075 - 0.75 inch MNPT (std) 050 - 0.50 inch MNPT 100 - 1 inch MNPT RA1 - Raised face flange 150 # 1 inch RA2 - Raised face flange 150 # 2 inch RB1 - Raised face flange 300 # 1 inch RB2 - Raised face flange 300 # 2 inch LFS - Low Flow Sensor S76 - SP76 Sensor SPL - Special Code - Sensor Material S6-316L Stainless Steel (std) S4 - 304 Stainless Steel SL - 304L Stainless Steel HB - Hastelloy B HC - Hastelloy C IO - Inconel 600 MN - Monel A2 - Alloy 20 SM - Special Material Code - Insertion Length 002.00 - 2.00 inch (std) 000.00 - 0.50" to 120.00" in .25" 000.00 - Custom Length Code - Power Input FLD - Field Config. (std) 110 - 110 VAC 220 - 220 VAC 24D - 24 VDC 24A - 24 VAC Code - Configuration LE-Local Electronics(std) **RE-Remote Electronics** Code - SpecialOption 00 - No Special Option CB - Factory Cal. EN - Extended Neck XW-XProof Window **VI-Variable Insertion** LT - Livetap DS - Double Sided FA - Failure Alarm MT - Medium Temp. HT - High Temp. **RT - RTD Output** TO-Thermocouple Out CA-Additional Cable PC - Potted Cable TG - Stainless Tag V\$5100 - 075 - \$6 - 002.00 - FLD-LE-00 Model Number Form Number (DML 1009.02)

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