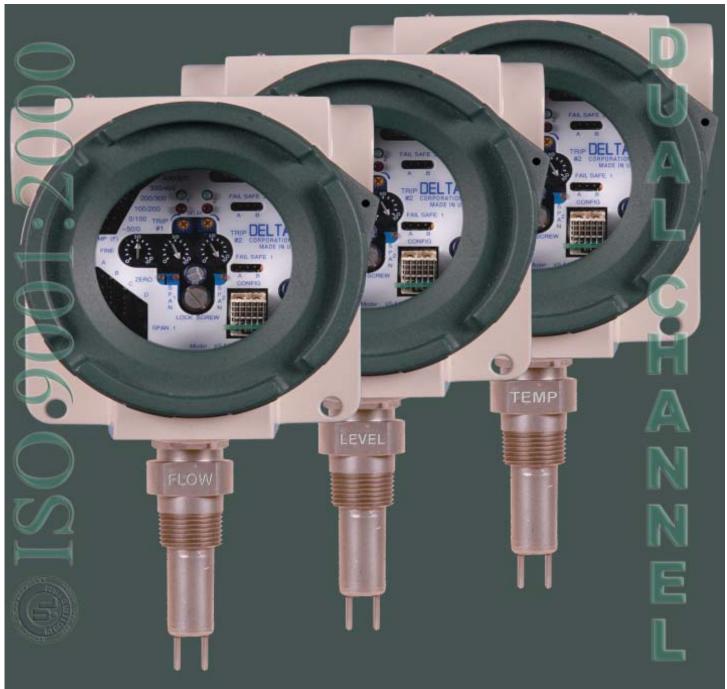


VERSA-SWITCH® MODEL VS5100

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

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°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 $+140^{\circ}$ 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 water 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 Number Selection Guide

M- 1-1
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
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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- X Proof 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
VS5100 - 075 - S6 - 002.00 - FLD-LE-00 Model Number
Form Number (DML 1009.02)

Form Number (DML 1009.02)