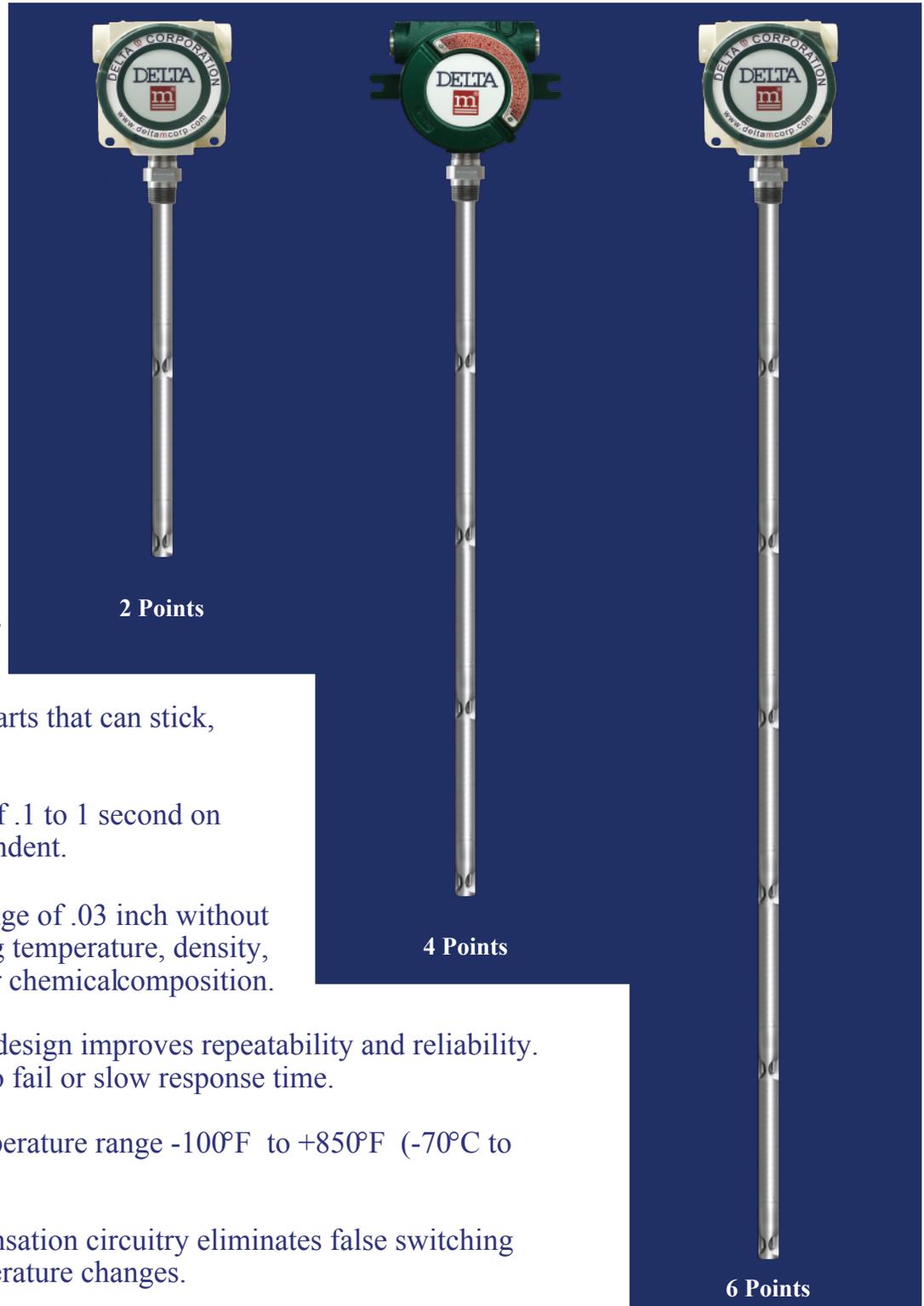


# Liquid Level Multi-Point

## Single Insertion 2 To 6 Points

- Built to suit your specific needs.
- Number of points and location determined by customer.
- Switch points are independent of each other.
- Local or Remote electronics.
- Removable, plug in electronics.
- All welded materials of construction 316L Stainless Steel (std).



- Free of all moving parts that can stick, coat or fail.
- Fast response time of .1 to 1 second on wetting, media dependent.
- Switch on level change of .03 inch without concern for changing temperature, density, dielectric constant or chemical composition.
- Self heating sensor design improves repeatability and reliability. No separate heater to fail or slow response time.
- Wide operating temperature range -100°F to +850°F (-70°C to +458°C).
- Temperature compensation circuitry eliminates false switching due to process temperature changes.
- Both the **VERSA-SWITCH**® and **microtuf**® families of multi-point level switches can provide a solution for your demanding point level applications.

# MODEL LM51NX MODEL LM51SC MODEL LM32NX

## SPECIFICATIONS

### Sensor

#### Type:

Thermal Differential, dual RTD sensors with no separate heater

#### Process Connection:

Standard 3/4 inch MNPT  
Optionally larger MNPT and flanges

#### Insertion Length:

Minimum 3.5 inches  
Optionally Up to 120.0 inches

#### 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 (std)

#### Operating Pressure Range:

Standard to 3000 psia (207 bar)

### Electronics

#### Power:

110VAC, 220 VAC, or 24 VDC at 3 watts (No heater power required)

#### Operating Temperature Range:

Standard -40 °F to +140 °F (-40 °C to +60 °C)  
Optionally remote electronics for use in medium temperature environments

#### Outputs Per Switch Point:

Independent relay DPDT, contacts rated at 5 amp, 250 VAC with ability to set fail safe mode

#### Self-Test:

Integral and automatic during power up

#### Enclosure:

Choice of local explosion proof with; NEMA 3, 4, 4X, 7, and 9; CSA, FM, UL, CENELEC, and EECS approvals or non explosion proof local or remote

### Instrument

#### Response Time:

Sensor response time 0.5 to 10 seconds media dependent

#### Response to Level Change:

Will respond to a level change as small as .03 inch.

#### Repeatability:

±1% of set point

## Model Number Selection Guide

### Code - Number of Points

0 - 2 to 6 Points 2.0 inches minimum between points

### Code - Model

LM51NX - Dual Channel VERSA-SWITCH®  
LM51SC - Single Channel VERSA-SWITCH®  
LM32NX - Single Channel microtuf®

### Code - Process Connection

075 - 3/4 Inch MNPT (std)  
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  
SPL - Special Process Connection

### Code - Sensor Material

S6 - 316L Stainless Steel (std)  
HC - C276 Hastelloy C  
SM - Special Material (Call Factory)

### Code - Insertion Length

000.00 - 3.50" to 120.00"

### Code - Power Input

FLD - Field Configurable (VS)  
110 - 110 VAC  
220 - 220 VAC  
24D - 24 VDC

### Code - Configuration

LE-Local Electronics (3pt)  
RE-Remote Electronics

### Code - Special Option

00 - No Special Option  
CB - Calibration  
EN - Extended Neck  
XW - X Proof Window  
FA - Failure Alarm (VS)  
MT - Med Temp (4pt)  
HT - High Temp (4pt)  
CA - Additional Cable  
OE - Optional Enclosure

2 - LM51NX - 075 - S6 - 12.00 - FLD - LE - 00



Optional Enclosures



Flush Sensor Design

Local Representative

Form Number (DML 1007.03)