

PURPOSE

Delavan's **MicroPoint 800** is a truly cost effective Microprocessor Based R.F. Capacitance On/Off Switch used in powder bulk solid and liquid applications.

■OEM FRIENDLY DESIGN

Designed with OEM customers in mind, the **MicroPoint 800** features several user selectable options including: system output, supply voltage, enclosure type, and a wide range of sensing probes.

PRINCIPLE OF OPERATION

The **MicroPoint 800** Microprocessor Based Point Level Switch consists of solid state electronics mounted in an explosion proof or corrosion resistant enclosure. The rugged sensing element utilizes a driven guard designed to eliminate the effects of material build-up or coatings.

The sensing element's "active" section is energized with a R.F. (radio frequency) signal approximately 2 mHz. When the process level changes, a change in capacitance occurs resulting in a change in frequency. This change is compared to a preset value and after amplification the signal is used to actuate a relay.

FEATURES

- · On-board microprocessor
- · Push button calibration
- Built-in driven guard
 Designed to eliminate false signals due to material build-up or coatings
- Sensitivity to .5 pF
- · Integral electronics
- · Explosion proof or corrosion resistant housing
- · Adjustable time delay
- · Non-volatile memory
- · Field selectable fail-safe
- Sensing probes to 50 ft.
- Status indication LED's





SPECIFICATIONS

Supply Voltage 24 Volts DC

Optional: 110/220 Volts AC

Absolute Limits ±4 Volts DC or 90-240 Volts AC

Power Consumption ≤ 3 volt-amperes

Sensitivity Factory set @ 5 pF

Field adjustable: < 2 pF

Output 24 Volts DC = Solid state FET output

110/220 Volts AC = Form C DPDT Relay 5 amp @ 115 Volts AC Non-inductive 5 amp @ 230 Volts AC Non-inductive

Time Delay Adjustable 50 milliseconds to 30 seconds

Fail-Safe

Selectable High Level or Low Level using jumper

Temperature Range Electronics: -40°F to +160°F

-40°C to +71°C

Enclosure Rating Explosion Proof:

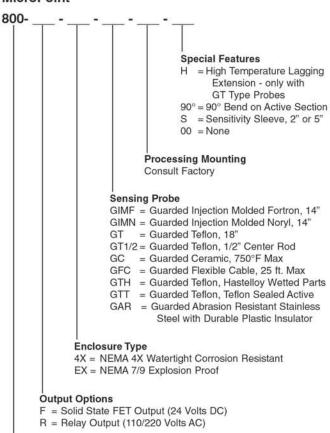
Meets NEMA 4, 5, 7, 9, 12; NEC Class I, Division II; NEC Class II, Division II

Watertight: Meets NEMA 4X

Watertight corrosion resistant

ORDERING INFORMATION

MicroPoint



Micropoint 800 Capacitance Point Level Switch



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