Easy-Installation
One-piece unit is easily installed through a single 3/4-inch, probe dependent vessel opening. Calibration is quick and simple.

Z-tron IV™ Point Level Switch, a reliable low-cost, on/off level switch

The low-cost, Drexelbrook Z-tron IV level switch is unaffected by sticky coatings and impervious to corrosive liquids. The all-electronic design means no moving parts to wear, break or fail. Based on field-proven RF technology, the Z-tron IV is a simple and reliable on/off level switch.

The compact one-piece unit is inserted through a standard 3/4-inch, probe dependent, NPT opening into the vessel so that the sensing element is positioned at the desired high or low level. (Other connection types and sizes are also available.) When the material level reaches a predetermined point on the sensing element, it causes a change in status at the electronic unit, resulting in actuation of the DPDT relay. The relay can be used to operate alarms, annunciators, valves, or other control or indication devices.

Drexelbrook’s Exclusive Cote-Shield™
Cote-Shield enables the Z-tron IV to ignore dust pileups, coatings, and sticky buildups on the sensing element.
High Level Fail Safe

- HLFS Switch: Up = High Level Fail Safe
- RED LED OFF: (NORMAL)
- TANK EMPTY

- N.C. = NORMALLY CLOSED
- N.O. = NORMALLY OPEN

- HLFS Switch: Up = High Level Fail Safe
- RED LED ON: (ALARM)
- TANK FULL

Low Level Fail Safe

- LLFS Switch: Down = Low Level Fail Safe
- RED LED ON: (ALARM)
- TANK EMPTY

- N.C. = NORMALLY CLOSED
- N.O. = NORMALLY OPEN

- LLFS Switch: Down = Low Level Fail Safe
- RED LED OFF: (NORMAL)
- TANK FULL
Z-tron IV™ Z02X-Series

Integral Mounting Dimensions

Dimensions are in inches (mm)
Z-tron IV™ Z02X-Series

Remote Mounting Dimensions

DIMENSIONS ARE IN INCHES (mm)
**Z-tron IV™ Z4-Series**

**Model Numbering**

- **Technology**: Z-tron IV RF Admittance Level Measurement System
- **Input Power**
  - 24 VDC
  - 115 VAC, Field Selectable
  - 230 VAC, Field Selectable
- **Electronics**
  - 0: Integral (No Cable)
  - 1: Remote w/ Out Cable
  - 2: Remote w/ 5 Ft Gp Cable
  - 3: Remote w/ 10 Ft Gp Cable
  - 4: Remote w/ 15 Ft Gp Cable
  - 5: Remote w/ 20 Ft Gp Cable
  - 6: Remote w/ 25 Ft Gp Cable
  - 7: Remote w/ 35 Ft Gp Cable
  - 8: Remote w/ 50 Ft Gp Cable
  - 9: Remote w/ 75 Ft Gp Cable
  - A: Remote w/ 100 Ft Gp Cable
  - B: Remote w/ 150 Ft Gp Cable
  - C: Remote w/ 5 Ft Hi Temp Cable
  - D: Remote w/ 10 Ft Hi Temp Cable
  - E: Remote w/ 15 Ft Hi Temp Comp Cable
  - F: Remote w/ 20 Ft Hi Temp Comp Cable
  - G: Remote w/ 25 Ft Hi Temp Comp Cable
  - H: Remote w/ 50 Ft Hi Temp Comp Cable
- **OEM Code**
  - **Series**
    - 1: Standard
    - 2: China
  - **Sensing Element**
    - *temperatures > 300 °F require a 6" cooling extension*
  - **Process connection (XX)**
    - B: 3/4" NPT
    - P: PFA (700-0001-018)
    - X*: Upon request
  - **Process gland wetted part (X)**
    - B: 316/316L SS
    - P: PFA (700-0001-018)
    - X*: Upon request
  - **Wetted Parts**
    - 200 psi @ 450°F 316 SS and PEEK
    - 200 psi @ 450°F 316 SS and PEEK
    - 1000 psi @ 250°F / 500 psi @ 300°F 316 SS and TFE
    - 50 psi @ 300 °F 2 psi @ 450 °F* 316 SS and TFE
    - 2 psi @ 500 °F 316 SS and TFE
    - 2 psi @ 500 °F 316 SS and TFE
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    - 2 psi @ 500 °F 316 SS and TFE
    - 2 psi @ 500 °F 316 SS and TFE
  - **Insertion Length in mm**
    - Xxxxxx Length of the probe in millimeters from process connection to the bottom of the probe
  - **Cote-Shield™ Length in mm**
    - Xxxxxx Length of the Cote-Shield in millimeters for 3-terminal probes. Not applicable for 2-terminal probes
  - **Inactive Length in mm**
    - Xxxxxx Length of the inactive part of the probe that is not measured. This option is primarily used in Interface measurement and Desalters
  - **Inactive Material**
    - B: 316/316L SS
    - N: Not Applicable
    - X*: Many more options are available upon request

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*Many more options available upon request (ASME/ANSI, DIN)*
**Z-tron IV™ Z4-Series**

**Specifications**

**Power Requirements:**
AC Units - Field Adjustable:
95-145 VAC, 50/60 Hz, 2 Watt
215-265 VAC, 50/60 Hz, 2 Watt
DC Units:
24 VDC Unit: 19-29 VDC input, 2 Watt

**Sensitivity:**
0.3pF or less

**Operating Point Range:**
0 - 80 pF (20 Turn Pot / 4 pF per Turn)
Extended range with external pad capacitor, Pad ratio 1:1

**Load Resistance:**
Center to Ground, 1500 Ohms
Center to Shield, 750 Ohms
Shield to Ground, 750 Ohms

**Failsafe:**
Field adjustable to either High-Level Fail-Safe (HLFS)
orLow-Level Fail-Safe (LLFS)

**Output:**
DPDT relay closure

**Contact Rating:**
5A @ 120 Vac non-inductive
2A @ 230 Vac non-inductive

**Ambient Temperature:**
-40°F to 145°F (-40°C to 63°C)

**Temperature Effect:**
0.5pF/50°F

**Line Voltage Effect:**
0.2pF/20V @ 120 Vac

**Stability:**
0.15pF/6 mo. maximum shift

**Spark Protection:**
100 Amp

**Mounting: (Probe Dependant)**
¾-inch NPT (Typical)

**Housing:**
The standard housing meets the following classifications:

- Nema 1 General-Purpose
- Nema 2 Drip-Tight
- Nema 3 Weather-Resistant
- Nema 4 Waterproof
- Nema 5 Dust-Tight
- Nema 12 Industrial Use

If hazardous area approval is required, use the Drexelbrook PXL The Point™ instrument for point level control.

**Time Delay:**
0-60 seconds (3/4 Turn Pot) 270° Potentiometer

**Approvals**
FM / FMC 3810 General Purpose