



Avensys

3 Reasons Why  
You Should Talk To... **DREXELBROOK®**

FIRST!

**RF** Point Level  
Solutions



**AMETEK®**

## Reason #1

# THE BEST TECHNOLOGY

For Your Application

### RF Admittance Technology FACTS

- Each year RF Admittance is the most purchased technology offered in electronic point level products
- Versatile technology, well proven in a wide range of applications in solid, liquid, and slurry conditions, unequalled in differentiating the interface between insulating and conducting liquids
- Cote-Shield™ technology eliminates false alarms due to coatings on the sensing element
- Robust technology is capable of handling environmental extremes from cryogenic to 2,000°F and process pressures from vacuum to 10,000 psi.
- Broad selection of industrially designed sensors are available for applications ranging from light powders to rocks, water to corrosive acids, with sanitary models for the pharmaceutical, biomedical, and food and beverage industries
- Sensors can be easily shortened or lengthened in the field
- No calibration products with automatic verify and certify test features
- Maintenance requirements are drastically reduced due to no moving parts, eliminating the need for excessive spare parts inventory, thus improving cost of ownership

When evaluating instrumentation for purchase there are some basic considerations that should be taken into account before making a decision. For an electronic point level switch, careful consideration should be given to which product technology will provide the highest reliability.

It only stands to reason that often times manufacturers will make the claim that their technology and products are best suited for you. We suggest that you focus on the facts and don't let yourself become distracted by their claims.

Listed are some facts to take into account when considering whether or not the RF Admittance technology and Drexelbrook products are best suited for your particular needs.



## Reason #2

# THE BEST COMPANY

Customers Rank Us Tops

### DREXELBROOK FACTS

- Over 45 years of application and product experience for both point and continuous level applications
- Recognized as the worldwide **leader** of exceptional RF Admittance level products
- Leader in innovative and **award winning** designs using RF Admittance technology and proprietary sensors
- RF Admittance point level products represent best-in-class products in their particular product group
- Every other point level technology we offer delivers the highest value in their product class
- We have a well established worldwide network of independent representatives and distributors that are ready to serve you with an average of over 30 years experience with Drexelbrook
- Level is our only business, which allows us to focus entirely on the level needs of the many markets we serve and the needs of those customers
- Drexelbrook has an installed base of over 2 million electronic point level switches, from the easiest to the most difficult applications, in every industrial sector

Selecting the right supplier is another important part of the evaluation process. Once again, we will give you the facts and you can make the decision. We hope after your review, that you feel we have given you enough good reasons to choose Drexelbrook as your supplier.



***Drexelbrook***  
***consistently earns***  
***high rankings for***  
***electronic point level***  
***and other technologies***  
***(Control Magazine***  
***Readers' Choice***  
***Awards)***



# Reason #3

# THE BEST PRODUCTS

## 3 Great RF Point Level Solutions



### INTELLIPOINT™ RF Admittance Point Level Switch

Our **BEST** and most versatile point level switch for liquids, slurries, interface and granular applications. The Intellipoint™ is suitable for extreme applications, temperatures from cryogenic to 2,000°F and pressure from vacuum to 10,000 psi. Sensors are designed for everything from light powders to rocks, slurries, and sanitary requirements. Drexelbrook's exclusive Cote-Shield™ circuitry eliminates false trips even with heavy coatings on the sensing element. The Intellipoint™ automatically calibrates itself; simply install the sensor in your vessel and connect power. An AutoVerify™ self-check circuit continuously monitors the complete instrument to validate that the switch is functioning properly. A watchdog circuit monitors the AutoVerify™ function, and indicates a fault if the AutoVerify™ circuit fails. The manual Certify™ not only checks the function of the switch and the control loop, but also checks the AutoVerify™ self-test circuits to make sure that they are also working properly. All these features make the Intellipoint™ the most versatile point level switch on the market.



#### FEATURES

- ||| Auto-Calibration
- ||| Cote-Shield™ circuitry ignores coatings
- ||| Auto-Ranging power supply
- ||| Dual compartment housing
- ||| Relay or current outputs
- ||| Integral or remote mount electronics
- ||| AutoVerify™ and Certify™ test features
- ||| No moving parts for maintenance free operation
- ||| Applications from cryogenic to 2,000°F, vacuum to 10,000 psi
- ||| 3A/sanitary sensors available
- ||| Time delay (0 to 60 seconds adjustable)
- ||| Optional SIL 1 and SIL 2 compliant models
- ||| 3 year warranty

### ThePoint™ RF Admittance Point Level Switch

ThePoint RF Admittance switch offers **PREMIUM** features at an economical price. ThePoint™ has the Auto-calibration feature; simply install in the vessel and power it up. No messing with potentiometers or initializing with buttons or magnets. ThePoint™ microprocessor-based electronic unit calibrates itself. ThePoint™ has no moving parts to wear out or hang up. This, along with Drexelbrook's Cote-Shield™ circuitry, eliminates the maintenance required with mechanical switches. These features make ThePoint™ the ideal choice to replace high maintenance, less robust, point level products. ThePoint™ provides reliable level switch operation for a wide variety of point level applications needs.



#### FEATURES

- ||| Auto-Calibration
- ||| Push-button selectable manual calibration and high sensitivity for special applications
- ||| Cote-Shield™ circuitry ignores coatings
- ||| Auto-Ranging power supply
- ||| Relay or current outputs Integral
- ||| Integral or remote mount electronics
- ||| No moving parts for maintenance free operation
- ||| Applications from cryogenic to 500°F, vacuum to 1,000 psi
- ||| 3A/sanitary sensors available
- ||| Time delay (0 to 60 seconds adjustable)
- ||| 2 year warranty

### Z-Tron III™ RF Admittance Point Level Switch

The Z-Tron III™ is an **ECONOMICAL**, general-purpose level switch for many liquids, slurries, and granular applications. The one-piece unit (electronics integrally mounted to the sensing element) is easily installed through a 3/4 inch NPT coupling. Calibration is attained with a potentiometer adjustment. Drexelbrook's Cote-Shield™ circuitry enables the Z-Tron III™ to ignore coatings on the sensing element. The Z-Tron III™ provides reliable point level operation for many of your point level switch applications at an economical price.



#### FEATURES

- ||| Cote-Shield™ circuitry ignores coatings
- ||| One-time calibration with a potentiometer adjustment
- ||| Relay outputs
- ||| No moving parts for maintenance-free operation
- ||| Applications from cryogenic to 250°F at 200 psi
- ||| Time delay (0 to 60 seconds adjustable)
- ||| 1-year warranty

## PRODUCT SPECIFICATIONS

### INTELLIPOINT RF™

**Modes of Operation:** High and Low Level

**Repeatability:** 2mm (0.08 inches)  
conductive liquids

**Response Time:** Less than 1 second

**Ambient Temperature:** -30 to 70°C (-28 to 158°F) KEMA, -40 to 70°C (-40 to 158°F) FM, CSA

**Indicators – LEDs:** Line Power Unit - Green Power, Red Relay 1 Alarm, Red Relay 2 Alarm

Loop Power - Green Power - Red Alarm

**Supply Voltage:** Line Power Unit – 85-250 VAC, 21-100 VDC, Auto-detecting without jumpers DC to 400 Hz

Loop Power Unit –13 to 30 VDC

**Power Consumption:** 2 watts maximum

**Output:** Line Power Unit – (2) DPDT relay  
Loop Power Unit – 8mA / 16mA

**MTTF (Mean Time To Failure):** 110 years  
(loop power unit)

**Approvals:** FM, CSA, ATEX, GOST, CEPPEL,  
CE Mark

**Housing:** NEMA 4X, explosion proof

### ThePoint™

**Modes of Operation:** High and Low Level

**Repeatability:** 2mm (0.08 inches)  
conductive liquids

**Response Time:** Less than 1 second

**Ambient Temperature:** -30 to 70°C (-28 to 158°F) KEMA, -40 to 70°C (-40 to 158°F) FM, CSA

**Indicators – LEDs:** Line Power Unit - Green Power, Red Relay Alarm

Loop Power - Green Power - Red Alarm

**Supply Voltage:** Line Power Unit – 19-250 VAC, 18-200 VDC, Auto-detecting without jumpers (50/60Hz)

Loop Power Unit –13 to 30 VDC

**Power Consumption:** 2 watts maximum

**Output:** Line Power Unit – DPDT relay  
Loop Power Unit – 8mA / 16mA

**Approvals:** FM, CSA, ATEX, CE Mark

**Housing:** NEMA 4X, explosion proof

### Z-Tron III™

**Modes of Operation:** High and Low Level

**Repeatability:** 2mm (0.08 inches)  
conductive liquids

**Response Time:** Less than 1 second

**Ambient Temperature:** -40 to 70°C (-28 to 158°F)

**Indicators – LEDs:** Green lit = Normal,  
not lit = Alarm

**Supply Voltage:** 120+25 VAC, 50/60 Hz  
(standard unit), 230+25 VAC, 50/60 Hz  
(optional), 15 to 30 VDC (optional)

**Power Consumption:** 1 watt maximum

**Output:** DPDT relay

**Approvals:** UL / CUL / 508 general purpose,  
CE Mark

**Housing:** NEMA 4X, explosion proof

### Wireless Interface Solution Products

AMETEK Drexelbrook wireless interface utilizes 902-928 MHz ISM band spread spectrum frequency hopping technology to guarantee a license-free, interference-free link between remote devices and the control room. Costly cable and conduit runs are eliminated and replaced with a maintenance-free, reliable wireless solution. Applications include monitoring of level, pressure, flow, and switching of discrete outputs and alarms. Any product that provides a 4 to 20 mA or discrete output can take advantage of this low cost solution that replaces expensive cable and conduit. Products are available for point-to-point and multi-point-to-point installations, plus two-way communication.

