**The Point™**  
Two-Wire  
RF Series Point Level Switch

**Intelligent Electronics Save Time and Money**  
- UNIQUE! - NO calibration or setpoint adjustments.  
- UNIQUE! - Ignores changes in dielectric or conductivity.  
- Automatically recognizes and ignores coatings to prevent false alarms.  

**Diverse Applications**  
- Detects the absence or presence of liquids, slurries, and granulars.  
- Capable of high pressures and temperatures.  

**Economical Without Sacrifice**  
- Retains superior performance.  
- Less maintenance than other technologies; no moving parts to hang up or wear out.  

**Output**  
- 8mA (Alarm), 16mA (Normal)  
- or  
- 8mA (Normal), 16mA (Alarm)

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**One of the Drexelbrook RF Point Level Switches You Won't Have to Calibrate**

Simply install ThePoint Series into the tank and apply power…that’s it! Unlike other RF or capacitance systems that require calibration via setpoint potentiometers, jumpers, magnets, or pushbuttons, ThePoint Series reliably detects the absence or presence of material without any adjustments.

ThePoint Series software continuously monitors the application for changes in composition, dielectric or conductivity, and maintains a repeatable trip point on the probe. Other RF and capacitance systems require calibration adjustments when the process material is changed. Since ThePoint Series recognizes changes in material, it is ideal for non-dedicated tanks that are used for a wide variety of products.

**Lower Cost of Ownership**

In addition to lower initial investment, ThePoint continues to save with little or no maintenance compared with other technologies. Further, the sensor can be lengthened or shortened in the field, saving need for additional purchases.

**Remote or Integral Electronics**

Unlike many technologies, electronics can be remote mounted to a convenient or safe location.
**The Point™**

**Specifications**

**Technology:**  
RF Admittance

**Calibration:**  
None

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

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

**Response Time:**  
Less than one second

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

**Storage Temperature:**  
-40 to 85°C (-40 to 185°F)

**Indicators:**  
LEDs: Green Power, Red Alarm

**Time Delay:**  
0-60 seconds, forward or reverse-acting

**Supply Voltage:**  
13-30 VDC

**Power Consumption:**  
2 watts maximum

**Output:**  
8mA (Alarm), 16mA (Normal)  
or  
8mA (Normal), 16mA (Alarm)

**Housing:**  
Powder-Coated aluminum with two cable entries.

**Cable Entry:**  
M20 x 1.5  
or  
¾-inch NPT

**Ingress Protection:**  
IP66 NEMA 4X

**Approvals:**

**Integral**  
Explosion Proof for Class I, Division 1, Groups B, C, and D;  
Dust Ignition Proof for Class II, III, Division 1, Groups E, F, and G;  
Non Incendiary for Class I, Division 2, Groups A, B, C, and D;  
Suitable for Class II, III, Division 2, Groups F and G hazardous  
9classified) locations  Outdoor Type 4, 4X, IP66 with Intrinsically  
Safe connections to Class I, II, III, Division 1, Groups A, B, C, D,  
E, F, and G hazardous (classified) locations in accordance with  
control drawing 420-0004-181-CD

**Remote**  
Explosion Proof for Class I, Division 1, Groups A, B, C, and D;  
Dust Ignition Proof for Class II, III, Division 1, Groups E, F, and G;  
Non Incendiary for Class I, Division 2, Groups A, B, C, and D;  
Suitable for Class II, III, Division 2, Groups F and G hazardous  
9classified) locations  Outdoor Type 4, 4X, IP66 with Intrinsically  
Safe connections to Class I, II, III, Division 1, Groups A, B, C, D,  
E, F, and G hazardous (classified) locations in accordance with  
control drawing 420-0004-181-CD

**Wiring**  
![Wiring Diagram](image)

**Dimensions**  
![Dimensions Diagram](image)
### Model Numbering (continued on next page)

**ThePoint™ Two-Wire**

#### Measurement Type
- **P** RF Admittance

#### Input
- **T** Two-Wire Power Supply 13-30 VDC

#### Output
- 0 8-16-mA Output

#### Housing
- 0 No Calibration, Point Level, High Sensitivity
- 1 No Calibration, Point Level
- 2 CENELEC/ATEX Approval Pending - not available
- 3 FM Approved
- 4 CSA Approval Pending - not available

#### Electronics
- 0 Integral
- 1 Remote, no cable
- 2 Remote with 3 m (10 feet) cable
- 3 Remote with 7.6 m (25 feet) cable
- 4 Remote with 10.6 m (35 feet) cable
- 5 Remote with 15.2 m (50 feet) cable
- 6 Remote with 23 m (75 feet) cable

#### Sensing Element

<table>
<thead>
<tr>
<th>Application</th>
<th>Sensing Element</th>
<th>Pressure/Temperature</th>
<th>Wetted Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 General purpose</td>
<td>700-1202-001 remote</td>
<td>13.8 bar @ 232˚C (200 PSI @ 450˚F)</td>
<td>316SS and PEEK</td>
</tr>
<tr>
<td>01 Floating roof with cable attachment and brass bottom weight</td>
<td>700-1202-012 remote</td>
<td>13.8 bar @ 177˚C (200 PSI @ 350˚F)</td>
<td>316SS, Brass, and PEEK</td>
</tr>
<tr>
<td>02 General purpose, longer insertion lengths with cable attachment and 316SS bottom weight</td>
<td>700-1202-014 remote</td>
<td>13.8 bar @ 177˚C (200 PSI @ 350˚F)</td>
<td>316SS and PEEK</td>
</tr>
<tr>
<td>03 Proximity</td>
<td>700-1202-018 remote</td>
<td>13.8 bar @ 232˚C (200 PSI @ 450˚F)</td>
<td>316SS and PEEK</td>
</tr>
<tr>
<td>04 General purpose, high temperature and pressure</td>
<td>700-1202-041 remote</td>
<td>69 bar @ 121˚C (1000 PSI @ 250˚F)</td>
<td>316SS and PEEK</td>
</tr>
<tr>
<td>06 General purpose with FDA approved materials of construction</td>
<td>700-1202-031 remote</td>
<td>13.8 bar @ 232˚C (200 PSI @ 450˚F)</td>
<td>316SS and FDA grade PEEK</td>
</tr>
<tr>
<td>07 General purpose Granular materials</td>
<td>700-1202-010 remote</td>
<td>13.8 bar @ 232˚C (200 PSI @ 450˚F)</td>
<td>316SS and PEEK with 7/8 inch dia. 316SS collar</td>
</tr>
<tr>
<td>08 General purpose Granular materials with FDA approved materials of construction</td>
<td>700-1202-033 remote</td>
<td>13.8 bar @ 232˚C (200 PSI @ 450˚F)</td>
<td>316SS and FDA grade PEEK with 7/8 inch dia. 316SS collar</td>
</tr>
<tr>
<td>10 Corrosive liquids (2)(4)(9)</td>
<td>700-0001-018 remote</td>
<td>3.4 bar @ 149˚C (50 PSI @ 300˚F)</td>
<td>PFA</td>
</tr>
<tr>
<td>11 General purpose, higher pressure TFE compatibility required</td>
<td>700-0201-005 remote</td>
<td>13.8 bar @ 232˚C (200 PSI @ 450˚F)</td>
<td>316SS and TFE</td>
</tr>
<tr>
<td>12 Corrosive material, higher pressure Hastelloy C</td>
<td>700-0201-005 remote</td>
<td>13.8 bar @ 232˚C (200 PSI @ 450˚F)</td>
<td>Hastelloy C and TFE</td>
</tr>
<tr>
<td>13 Sanitary (3)</td>
<td>700-0201-036 remote</td>
<td>69 bar @ 38˚C (1000 PSI @ 100˚F)</td>
<td>316/316L SS and TFE</td>
</tr>
<tr>
<td>14 General Purpose, low pressure</td>
<td>700-0202-002 remote</td>
<td>3.4 bar @ 149˚C (50 PSI @ 300˚F)</td>
<td>316SS and TFE</td>
</tr>
<tr>
<td>15 Heavy duty, agitated tanks or material with high bulk density (1)</td>
<td>700-0202-043 remote</td>
<td>1.4 bar @ 232˚C (20 PSI @ 450˚F)</td>
<td>316SS and TFE</td>
</tr>
<tr>
<td>17 Sanitary (3) low pressure</td>
<td>700-0202-036 remote</td>
<td>3.4 bar @ 149˚C (50 PSI @ 300˚F)</td>
<td>316SS and TFE</td>
</tr>
<tr>
<td>18 Corrosive material, higher pressure with waterlike viscosity (4)</td>
<td>700-0001-022 remote</td>
<td>69 bar @ 38˚C (1000 PSI @ 100˚F)</td>
<td>TFE</td>
</tr>
<tr>
<td>20 Miniature Pilot Plant Sensor (1)(7)</td>
<td>700-0209-002 remote</td>
<td>6.9 bar @ 121˚C (100 PSI @ 250˚F)</td>
<td>316 SS and TFE</td>
</tr>
</tbody>
</table>
**The Point™**

**Model Numbering**

**Fly Ash Precipitators, Baghouse, and Economizers (1) (6)**

<table>
<thead>
<tr>
<th>Application</th>
<th>Sensing Element</th>
<th>Pressure/Temperature</th>
<th>Wetted Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 No hopper Installation</td>
<td>700-0029-001</td>
<td>0.1 bar @ 260°C (2 PSI @ 500°F)</td>
<td>316SS and TFE (CS Inactive)</td>
</tr>
<tr>
<td>32 Hopper Installation up to 200mm (8 inches)</td>
<td>700-0029-002</td>
<td>0.1 bar @ 260°C (2 PSI @ 500°F)</td>
<td>316SS and TFE (CS Inactive)</td>
</tr>
<tr>
<td>33 Hopper Installation up to 250mm (10 inches)</td>
<td>700-0029-003</td>
<td>0.1 bar @ 260°C (2 PSI @ 500°F)</td>
<td>316SS and TFE (CS Inactive)</td>
</tr>
<tr>
<td>34 Hopper Installation up to 330mm (13 inches)</td>
<td>700-0029-004</td>
<td>0.1 bar @ 260°C (2 PSI @ 500°F)</td>
<td>316SS and TFE (CS Inactive)</td>
</tr>
<tr>
<td>35 Hopper Installation up to 400mm (16 inches)</td>
<td>700-0029-005</td>
<td>0.1 bar @ 260°C (2 PSI @ 500°F)</td>
<td>316SS and TFE (CS Inactive)</td>
</tr>
</tbody>
</table>

**Mounting Type** (See separate Mounting Chart for first three digits)

- IL
- CSL
- IL
- CSL

**Notes:**
1. Available with remote electronics only
2. Use A1P mounting option
3. Choose from sanitary mounting options only
4. Available with 0-inch CSL only
5. Use P00X mounting option
6. Use A1B mounting option
7. Use ABB mounting option ¼-inch NPT
8. Choose from flange mounting only
9. FM approved with remote electronics only
10. Not all mounting options available with all sensing elements

**NPT Threads**

- A1B ¾” NPT 316SS
- A1C ¾” NPT Hastelloy C
- A1P ¼” NPT PFA
- A2B 1” NPT 316SS
- A2C 1” NPT Hastelloy C

**Sanitary TriClamps**

- C2B 1” TriClamp 316SS
- C3B 1½” TriClamp 316SS
- C4B 2” TriClamp 316SS

**DIN Flanges**

<table>
<thead>
<tr>
<th>Flange Type</th>
<th>Pressure/Temperature</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>E02</td>
<td>25 mm 16 bar</td>
<td>RF Carbon Steel</td>
</tr>
<tr>
<td>E02</td>
<td>50 mm 16 bar</td>
<td>RF Carbon Steel</td>
</tr>
<tr>
<td>E02</td>
<td>80 mm 16 bar</td>
<td>RF Carbon Steel</td>
</tr>
<tr>
<td>E100</td>
<td>125 mm 16 bar</td>
<td>RF Carbon Steel</td>
</tr>
<tr>
<td>E100</td>
<td>150 mm 16 bar</td>
<td>RF Carbon Steel</td>
</tr>
<tr>
<td>E150</td>
<td>150 mm 16 bar</td>
<td>RF Carbon Steel</td>
</tr>
<tr>
<td>E150</td>
<td>200 mm 16 bar</td>
<td>RF Carbon Steel</td>
</tr>
</tbody>
</table>

**ANSI Flanges**

<table>
<thead>
<tr>
<th>Flange Type</th>
<th>Pressure/Temperature</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA1</td>
<td>1” 150#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DB1</td>
<td>1½” 150#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DC1</td>
<td>2” 150#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DD1</td>
<td>2½” 150#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DE1</td>
<td>1” 300#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DF1</td>
<td>1½” 300#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DG1</td>
<td>2” 300#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DH1</td>
<td>2½” 300#</td>
<td>RF 316/316L SS</td>
</tr>
<tr>
<td>DI1</td>
<td>3” 150#</td>
<td>RF 316/316L SS</td>
</tr>
</tbody>
</table>

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