The **A430 Bubble Detector** is one of our standard sensors for use with most 1/4 inch OD tubing. It uses our proprietary digital noninvasive ultrasonic bubble sensing technology to accurately and reliably detect bubbles in a wide variety of fluids in rigid or soft tubing materials. Custom characteristics can be provided for OEM users.

**Features:**
- Optional integrated self-test function
- Power consumption as low as 3mA on some models
- Dry-couples with a variety of tubing materials
- Custom pinouts, cables, and connectors available
- Digital “smart” circuit for superior customability
- Noninvasive ultrasonic bubble sensing technology
- Optional red/green LED for visual output indication

<table>
<thead>
<tr>
<th>Specifications:</th>
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<tbody>
<tr>
<td><strong>Tube Size:</strong></td>
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<tr>
<td><strong>Bubble Size:</strong></td>
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<tr>
<td><strong>Sensor Input:</strong></td>
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<tr>
<td><strong>Sensor Output:</strong></td>
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<tr>
<td><strong>Response Time:</strong></td>
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</tbody>
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<table>
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<tr>
<th>Lead Out (Typically):</th>
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<tbody>
<tr>
<td><strong>Red:</strong></td>
</tr>
<tr>
<td><strong>Black:</strong></td>
</tr>
<tr>
<td><strong>Green:</strong></td>
</tr>
<tr>
<td><strong>White:</strong></td>
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</tbody>
</table>

**Applications:**
- Medical Instrumentation
- Semiconductor Processing
- Food Dispensing Equipment
- Chemical Processing
- Pharmaceutical Industry
Product Configuration

**A430 - S L T D**

**Mounting Options**
- **S**: #4-40 Threaded Inserts
- **M**: M2.5 Threaded Inserts

**LED Configurations**
- **L**: With Red/Green LED to indicate output
- **N**: Without Red/Green LED to indicate output

**Test Pin Functionality**
- **D**: Test Pin Disabled
- **E**: Test Pin Enabled (Contact SMD)

**Electronic Configuration**
- **T**: Supply Voltage: 5-15 VDC
  - Output Signal: 5V TTL
    - High: >4.3 VDC
    - Low: <0.6 VDC
    - 3mA Max
- **P**: Supply Voltage: 5-24 VDC
  - Output Signal: PNP/Sourcing
    - High: >Vsupply - 0.5V
    - Low: Open, 10K Pull-Down
    - 300mA Max

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**Cable**
- 12.0” [304.8 mm]

**Dimensions**
- 0.11” [2.9 mm]
- 0.77” [19.7 mm]
- 1.12” [28.5 mm]
- 0.86” [22.0 mm]
- 0.79” [20.2 mm]
- 0.54” [13.7 mm]