ULTRA-TRAK 750™
Senses ultrasonic amplitude changes and guards against unplanned downtime and product loss!

By detecting changes of ultrasonic amplitude the Ultra-Trak 750™ provides early warning of:
- Mechanical failure
- Valve leakage
- Flow disruption
- Internal arcing/partial discharge

Reap benefits from the moment you install the Ultra-Trak 750™, as it passively monitors ultrasounds produced by operating equipment. Ultra-Trak 750™ is easily connected to alarms or recorders for data logging because of its 4-20 mA current output, coupled with a demodulated output.

The rugged Ultra-Trak 750™ is housed in stainless steel. Because it’s water resistant and dust proof, it can be externally mounted in practically any challenging environment. Coupled with a wide dynamic range of 120 dB and sensitivity adjustment, this sensor is ready to meet your most demanding sensing needs.
Typical Ultra-Trak 750™ applications include:

- Valve Leakage/Blow-by Warning
- Bearing Monitoring
  (including Lubrication Warning)
- Detection of Onset of Arcing in Switchgear
- Partial Discharge Detection
- Flow Disruption
- Cavitation Monitoring/Alarm
- Shut Down Warning
- Trend or Alarm Amplitude Rise/Fall-Off

Ultra-Trak 750™ FEATURES

- Demodulated Output for Analysis
- Dynamic Range: 120 dB
- Sensing Range: 40 dB Once the sound level is set, there's a 40 dB monitoring range
- Peak Frequency Response: 40kHz
- Outputs for External Data logging or Sound Recording
- IP 64 rated

Ultra-Trak 750™ Specifications

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Loop Powered</th>
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<tbody>
<tr>
<td>Current Draw</td>
<td>18-30 V (30 mA max)</td>
</tr>
<tr>
<td></td>
<td>4-20 mA (25 mA max) proportional to ultrasound signal detection</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Output</th>
<th>Demodulated/heterodyned</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Demodulated/heterodyned 4-20 mA proportional to ultrasound signal detected</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>0 °C - 50 °C (32 °F - 122 °F)</th>
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<tbody>
<tr>
<td>Detection Frequency</td>
<td>40 kHz (± 2 kHz)</td>
</tr>
<tr>
<td>Non-Volatile Sensitivity Adjustment</td>
<td>Pushbutton contact closure or TTL control signal</td>
</tr>
<tr>
<td>Cable</td>
<td>RF Shielded 3 m (10')</td>
</tr>
<tr>
<td>Method of Attachment</td>
<td>10/32 female thread mounting</td>
</tr>
<tr>
<td>Housing</td>
<td>Stainless steel; water resistant and dustproof, meets NEMA 4X requirements. Exceeds IP 64 ratings.</td>
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How the Ultra-Trak 750™ Works:

The Ultra-Trak 750™ senses high frequency emissions produced by operating equipment.

- A baseline threshold can be set within a wide dynamic range of 120 decibels
- Once set, the Ultra-Trak 750™ then monitors changes of ultrasonic amplitude within a range of 40 decibels
- The Ultra-Trak 750™ can be connected with other devices to provide alarms or for tracking potential problems over time
- The Ultra-Trak 750™ can be used for sound level increases, for example to warn of onset of valve leakage or bearing failure
- Amplitude fall-off can be used to signal line flow disruption or alarm of machine shutdown

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