## Gas Detection Systems Feature/Benefit Tables

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>2-wire type</th>
<th>Switch Type</th>
<th>Optional alarm board relay</th>
<th>Optional visual display</th>
<th>Absorbed calibration</th>
<th>RS-485 output</th>
<th>CS Premier compatible</th>
<th>HART communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>PREC</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>OPEC</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>PREC-1000</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Model 500</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>C7000 Series</td>
<td>Electrochemical</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>DL Series</td>
<td>Electrochemical</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>L5500 Series</td>
<td>All</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>TLE Series</td>
<td>All</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
</tbody>
</table>

### Feature/Benefit

<table>
<thead>
<tr>
<th>Sensor compatibility</th>
<th># of channels</th>
<th>Visual Display</th>
<th>Alarm/Display</th>
<th>Optional relay</th>
<th>Optional analog output</th>
<th>Calibration function</th>
<th>Wall mount or panel mount options</th>
<th>RS-485 output</th>
</tr>
</thead>
<tbody>
<tr>
<td>R47TA</td>
<td>Catalytic only</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>R47IC</td>
<td>Hydrogen Sulfide</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>R47IC</td>
<td>Oxygen</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>R47TE</td>
<td>Carbon Monoxide</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>R47TE</td>
<td>Sulfur Dioxide</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>R47TE</td>
<td>Hydrogen</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>R4TCH</td>
<td>Benzene</td>
<td>1 to 30</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>TAC</td>
<td>All</td>
<td>1 to 20</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>EQ Premier</td>
<td>All</td>
<td>up to 240</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

Contact Det-Tronics for the solution to your gas detection requirements.
The Det-Tronics Difference

Det-Tronics gas detectors and systems are painstakingly designed, tested and approved to rigorous gas detector performance tests prescribed by Factory Mutual (FM) and Canadian Standards (CSA) in North America, and ATEX and CENELEC standards in the European Union (EU).

The benefit to our customers is that products compliant to these new performance standards ensure the detector and associated electronics are capable of delivering the actual field performance expected by the user.

For years, understanding the fine print in a gas detector approval certificate was critical to knowing what the benefit was. Det-Tronics has taken a customer-focused approach to product approvals, and now leads the industry with performance tested and approved hazardous gas detection system solutions, to the benefit of our customers the world over.

Gas Detection Technologies

**INFRARED (IR)**

Across the globe, optical IR gas detection is now the preferred detection technology for early warning of flammable hydrocarbon gas leaks.

**CATALYTIC BEAD**

Det-Tronics has been manufacturing catalytic gas sensor technology for over a decade, and is still going strong.

Utilizing our own high-quality, platinum pellets (beads) and 316 stainless steel housings, the Combustible Gas Sensor (CGS) series sensors deliver reliable flammable gas detection complete with excellent poison-resistance. A variety of CGS transmitter options are available to meet your system needs.

Owners will achieve the ultimate in fast and reliable flammable leak detection combining Det-Tronics point IR and Open Path Eclipse IR systems at their facility.

**ELECTROCHEMICAL (EC)**

Det-Tronics electrochemical gas sensors deliver the most reliable toxic/oxygen gas detection technology available.

A wide variety of EC sensors for early detection of toxic gases are offered. Depending on your system needs, either the explosion-proof C706x toxic sensor family or the loop-powered, intrinsically-safe TXL gas detectors can easily be installed at your facility.

In addition, a number of complimentary field transmitters and controllers are available for both stand-alone and system configurations. Key applications protected by Det-Tronics EC detectors include industrial chemical plants, oil/gas facilities, offshore platforms, wastewater plants, semiconductor facilities and industrial hygiene protection.

**TRANSMITTERS & CONTROLLERS**

Global customers require a wide range of alarm signals for proper annunciation and hazard mitigation.

Det-Tronics delivers a number of gas transmitter options, including our U9500 Infiniti, TXL, and THZ products, and each is compatible with a wide range of sensing technologies.

For indication and alarm at remote locations, our RB471 series and DMC gas controllers provide a comprehensive and flexible control solution.

**Systems**

**FIRE AND GAS**

Det-Tronics has established a tradition of excellence in the gas and fire systems market.

Our project engineering group integrates a wide range of gas and fire detection technologies into complete detection and mitigation systems designed, built, tested, and installed per your specification.

Our premier solution is aptly named the Eagle Quantum Premier system, a globally approved, NFPA-72 compliant, fire and gas detection and suppression releasing system.

Project engineering capabilities include design, build, test and commissioning services.

**ACCESSORIES**

Challenging applications abound in the global gas detection market. Det-Tronics offers a wide range of gas sensor accessories, including direct duct mounting kits, air sample extraction systems and components, and sensor protection accessories.

High quality, weatherproof enclosures, approved 24 VDC power supplies and traceable accuracy calibration gas kits round out our line of gas detection system accessories.

**production**

**transportation and storage**

**end uses**
The Det-Tronics Difference

Det-Tronics gas detectors and systems are painstakingly designed, tested and approved to rigorous gas detector performance tests prescribed by Factory Mutual (FM) and Canadian Standards (CSA) in North America, and ATEX and CENELEC standards in the European Union (EU).

The benefit to our customers is that products compliant to these new performance standards ensure the detector and associated electronics are capable of delivering the actual field performance expected by the user.

For years, understanding the fine print in a gas detector approval certificate was critical to knowing what the benefit was. Det-Tronics has taken a customer-focused approach to product approvals, and now leads the industry with performance tested and approved hazardous gas detection system solutions, to the benefit of our customers the world over.

Gas Detection Technologies

INFRARED (IR)

Across the globe, optical IR gas detection is now the preferred detection technology for early warning of flammable hydrocarbon gas leaks.

The Pointwatch family of point IR gas detectors lead the industry in quality, performance, and lowest cost of ownership. Our new Open-Path Eclipse IR gas detection system provides large area, hydrocarbon gas leak protection.

Owners will achieve the ultimate in fast and reliable flammable leak detection combining Det-Tronics point IR and Open Path Eclipse IR systems at their facility.

CATALYTIC BEAD

Det-Tronics has been manufacturing catalytic gas sensor technology for well over a decade, and is still going strong.

Utilizing our own high-quality, platinum beads and 316 stainless steel housings, the Combustible Gas Sensor (CGS) series sensors deliver reliable flammable gas detection complete with excellent poison-resistance. A variety of CGS transmitter options are available to meet your system needs.

The CGS sensor is a must for applications such as battery rooms and other areas where hydrogen gas is expected to be present.

The Pointwatch family of point IR gas detectors lead the industry in quality, performance, and lowest cost of ownership. Our new Open-Path Eclipse IR gas detection system provides large area, hydrocarbon gas leak protection.

Owners will achieve the ultimate in fast and reliable flammable leak detection combining Det-Tronics point IR and Open Path Eclipse IR systems at their facility.

ELECTROCHEMICAL (EC)

Det-Tronics electrochemical gas sensors deliver the most reliable toxic/oxygen gas detection technology available.

A wide variety of EC sensors for early detection of toxic gases are offered. Depending on your system needs, either the explosion-proof C706x toxic sensor family for remote locations, our U9500 Infiniti, TXL, and THZ products, and each is compatible with a wide range of sensing technologies.

For indication and alarm at remote locations, our RB471 series and DMC gas controllers provide a comprehensive and flexible control solution.

TRANSMITTERS & CONTROLLERS

Global customers require a wide range of alarm signals for proper annunciation and hazard mitigation.

Det-Tronics delivers a number of gas transmitter options, including our U9500 Infiniti, TXL, and THZ products, and each is compatible with a wide range of sensing technologies. For indication and alarm at remote locations, our RB471 series and DMC gas controllers provide a comprehensive and flexible control solution.

Systems

FIRE AND GAS

Det-Tronics has established a tradition of excellence in the gas and fire systems market.

Our project engineering group integrates a wide range of gas and fire detection technologies into complete detection and mitigation systems designed, built, tested, and installed per your specification.

Our premier solution is aptly named the Eagle Quantum Premier system, a globally approved, NFPA-72 compliant, fire and gas detection and suppression releasing system.

Accessories

ACCESSORIES

Challenging applications abound in the global gas detection market.

Det-Tronics offers a wide range of sensor accessories, including direct duct mounting kits, air sample extraction systems and components, and sensor protection accessories.

High quality, weatherproof enclosures, approved 24 VDC power supplies and traceable accuracy calibration gas kits round out our line of gas detection system accessories.

production

refining

transportation and storage

end uses
Gas Detection Systems Feature/Benefit Tables

<table>
<thead>
<tr>
<th>Gas Type</th>
<th>Feature/Benefit</th>
<th>Sensor</th>
<th># of channels</th>
<th>Visual Display</th>
<th>Bar Graph Display</th>
<th>Optimal relay output</th>
<th>Optimal switching output</th>
<th>Calibration range</th>
<th>Wall mount or pendant mount options</th>
<th>HART communication</th>
<th>HS-485 output</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM77A</td>
<td>Catalytic only</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>RM77C</td>
<td>O2 sensor</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>RM77E</td>
<td>Carbon Monoxide</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>RM77F</td>
<td>Sulfur Dioxide</td>
<td>1</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>RM77H</td>
<td>FID only</td>
<td>1 to 36</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>RM77K</td>
<td>All</td>
<td>1 to 240</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

Contact Det-Tronics for the solution to your gas detection requirements.