Combustible and Toxic Gas Detection Solutions

Performance and Safety
Beyond Compliance
Our proven hazardous gas detection systems deliver the highest level of protection for people, processes and property—even under the most extreme conditions.

▲ Rock-solid, performance-tested detectors for a wide variety of gas hazards – all with global approvals

▲ Durable, integrated solutions for protection of people and critical industrial applications

▲ We partner with customers to design, manufacture, test and deliver complete, approved safety systems

Multiple Layers of Detection

**LINE-OF-SIGHT GAS DETECTION**
Detect combustible gas between two points up to 120 meters apart with infrared technology

**POINT GAS DETECTION**
Detect toxic or combustible gases using electrochemical, catalytic, infrared or NTMOS technology

**ACOUSTIC LEAK DETECTION**
Detect pressurized gas leaks instantly without contact, regardless of wind direction
Det-Tronics leads the industry with performance-tested hazardous gas detection solutions that perform optimally with minimal maintenance.

- Certified SIL 2 Capable solutions to streamline safety system design and provide maximum reliability
- Performance tested in third-party labs to validate response and accuracy
- Extra global approvals to ensure optimal safety and protection

1. Heated to improve operation in cold or damp environments
2. Junction box designed to reduce installation cost
3. Local display to provide confidence that you are being protected
4. Special versions available that support easy integration with the Eagle Quantum Premier Safety System
5. Certified SIL 2 Capable to integrate into high availability safety systems
6. Approved to install without conduit seals to reduce installation cost
7. Rugged-weather baffles for best-in-class protection
8. HART communication for comprehensive diagnostic information
Combustible Gas Detection

**POINTWATCH ECLIPSE® INFRARED HYDROCARBON GAS DETECTOR**
- Certified to detect methane, propane, ethylene and butane
- Proven infrared technology to detect and communicate gas leaks
- Rugged IP66/67 construction and extended interval testing reduces maintenance

**CGS CATALYTIC BEAD SENSOR**
- Best sensor for high temperature and hydrogen detection applications
- Cost-effective solution to detect a broad range of combustible gases
- Rugged, stainless steel construction

**OPECL INFRARED LINE OF SIGHT HYDROCARBON GAS DETECTOR**
- Monitors up to 120m with a projected beam
- Reduced installation and maintenance costs over multiple gas detectors
- HART communications for simplified maintenance
Toxic Gas Detection

GT3000 ELECTROCHEMICAL TOXIC GAS DETECTOR
- Detects hydrogen sulfide, hydrogen, oxygen, carbon monoxide, nitrogen dioxide, ammonia, chlorine and sulfur dioxide
- Certified SIL 2 Capable oxygen and hydrogen sensors
- Simple, one-person calibration

NTMOS HYDROGEN SULFIDE DETECTOR
- ISA-compliant and IP66/67 rated for dust and water protection
- Ideal for extreme temperature and humidity levels
- Provides incredibly fast response when every second counts

FLEXSONIC™ ACOUSTIC LEAK DETECTOR
- Detects instantly; no contact with gas required
- Sensitivity unaffected by wind direction or leak location
- Performs automatic integrity checks

POINTWATCH ECLIPSE® INFRARED CARBON DIOXIDE GAS DETECTOR
- Quickly detects hazardous levels of carbon dioxide
- Tri-color LED provides local status indication and improves maintenance
- Proven performance
Benefit from Universal Display and Unparalleled Control

**FLEXVU® UNIVERSAL DISPLAY**
- Reduces parts inventory and manpower; lowers risk
- Non-intrusive, one-person calibration
- Approved to trigger life-safety horns and alarms
- Loop-powered options for easy integration

**EAGLE QUANTUM PREMIER® (EQP) SAFETY SYSTEM**
- Combines gas and flame detection and extinguishing flame release in a single integrated solution
- Certified SIL 2 Capable
- NFPA 72 and EN 54 compliant
- Redundant, fault-tolerant loop reduces installation costs

**ACCESSORIES**
- Application specific to meet customer requirements
- Duct mounts, junction boxes, calibration kits and more
- Single source, with highest-quality products and support
Select from Proven Products to Meet Your Safety Needs

<table>
<thead>
<tr>
<th>Model</th>
<th>Detected Gases</th>
<th>Temp. Range</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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<tbody>
<tr>
<td><strong>COMBUSTIBLE GAS</strong></td>
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<tr>
<td>PointWatch Eclipse*</td>
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<td>-40 to +75C</td>
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<td>▲</td>
<td>▲</td>
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<tr>
<td>CGS Catalytic Bead Sensor</td>
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<td>●</td>
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<tr>
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<td>▲</td>
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<tr>
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- **A Performance Certified:** Outside laboratories independently validate Det-Tronics accuracy across the temperature range.
- **B Event Historian:** Most sensors maintain calibration logs and usage history. When combined with UD10, additional diagnostic information is maintained like alarm events and faults like failed calibration or loss of power.
- **C Certified SIL 2 Capable:** Det-Tronics uses exida to verify and certify the reliability of combustible gas and toxic gas detectors and displays.
- **D Heated Sensors or Displays:** A sensor covered with condensation, rain or snow cannot detect hazards. Det-Tronics detectors are heated to operate in extreme conditions.
- **E IP Rating:** Verifies that dust and water will not affect the products’ operation, third-party testing and ratings are provided on all products.
- **F Analog 4-20mA:** The device outputs to the most common communication method for safety systems. This method requires home run wiring topography to the controller.
- **G HART Digital:** The device allows for the use of the HART handheld maintenance tool. In addition, the GT3000, UD10 and Eclipse are FDT/DTM and AMS compatible.
- **H Relays:** The device has multiple relay outputs to drive local horns and alarms without the need to connect to a controller.
- **I EQP/LON:** The device is compatible with Det-Tronics Eagle Quantum Premier (EQP) Safety System. The EQP uses an addressable loop, which allows customers to use multidrop wiring techniques to reduce installation costs.
- **J Digital Modbus RTU:** Device outputs to an addressable loop, which allows customers to use multidrop wiring techniques to reduce installation costs.
- **K Loop Powered:** A device that uses two wires for both power and signal.
The Global Leader in Fire and Gas Safety Systems

FlexSonic™ Acoustic Leak Detector
X3301 Multispectrum IR Flame Detector
PointWatch Eclipse® IR Combustible Gas Detector
FlexVu® Universal Display with GT3000 Toxic Gas Detector
Eagle Quantum Premier® Safety System

Corporate Office
6901 West 110th Street
Minneapolis, MN 55438 USA
www.det-tronics.com

Phone: 952.946.6491
Toll-free: 800.765.3473
Fax: 952.829.8750
det-tronics@det-tronics.com

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