

# Combustible and Toxic Gas Detection Solutions

Performance and Safety  
Beyond Compliance



# Reliable Solutions from Det-Tronics, Your Partner in Safety

# Trusted Response with the Utmost Confidence



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



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

## Multiple Layers of Detection

### LINE-OF-SIGHT GAS DETECTION

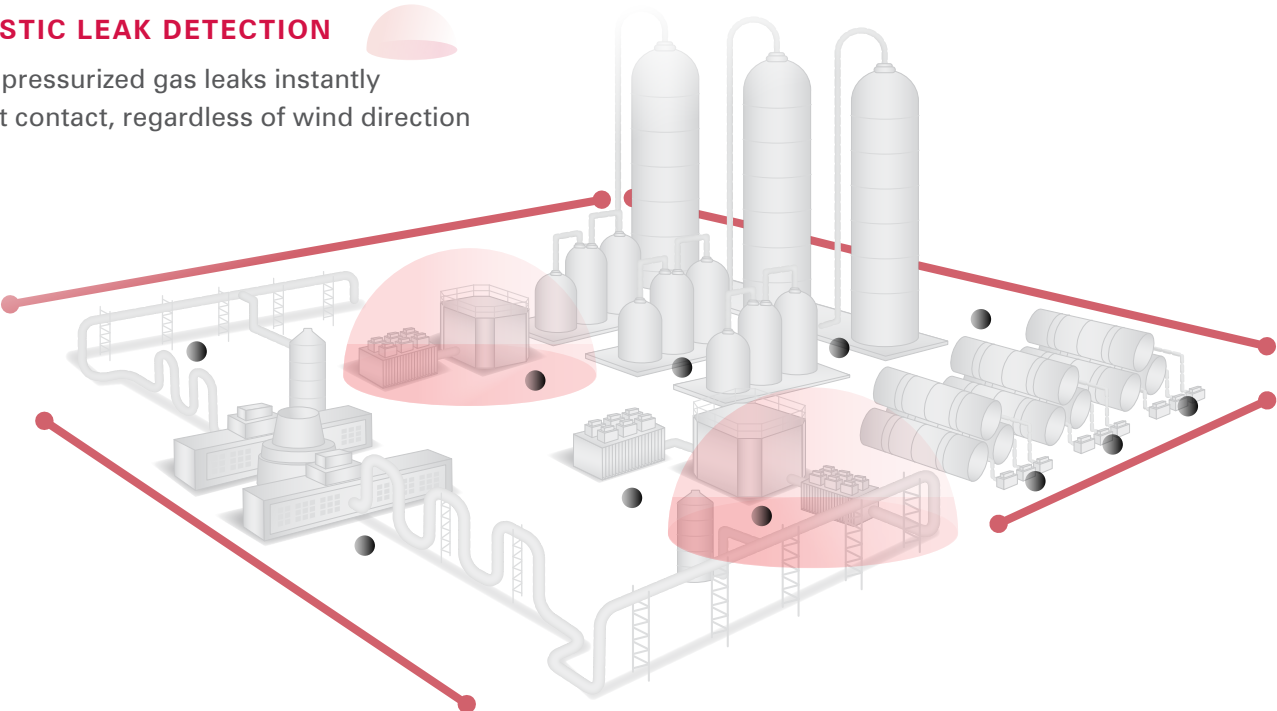
Detect combustible gas between two points up to 120 meters apart with infrared technology

### 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



- 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 (EQP)
- 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

# Toxic Gas Detection



### POINTWATCH ECLIPSE® INFRARED HYDROCARBON GAS DETECTOR

- ▲ Top selling 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
- ▲ Faster response option available
- ▲ 5-year device warranty



### 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 sulfide sensors
- ▲ Simple, one-person calibration



### 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
- ▲ Certified SIL2 capable when used with FlexVu® UD10 universal display



### COMBUSTIBLE AND TOXIC GAS DETECTION

### FLEXSONIC® ACOUSTIC LEAK DETECTOR

- ▲ Detects instantly; no contact with gas required
- ▲ Sensitivity unaffected by wind direction or leak location
- ▲ Performs automatic integrity checks
- ▲ Works out of the box
- ▲ exida safety award winner



### 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



### FLEXSIGHT™ LS2000 LINE-OF-SIGHT INFRARED GAS DETECTOR

- ▲ Easy to install and align
- ▲ Significantly improved alignment tolerance
- ▲ Third-party certified
- ▲ Ten-year IR source warranty; 5-year device warranty
- ▲ exida safety award winner



### 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
- ▲ 5-year device warranty



# Benefit from Unparalleled Control

# Select from Proven Products to Meet Your Safety Needs



### 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

### GP16 GAS PANEL

- ▲ Pre-configured EQP system with 16 detection inputs for combustible or toxic gas types
- ▲ Flexible communication options of 4/20mA and/or LON
- ▲ User friendly HMI touch screen and sounder on panel

### ACCESSORIES

- ▲ Including duct mounts, junction boxes, calibration kits and more
- ▲ Single source and application specific with highest-quality products and support



				A	B	C	D	E	F	G	H	I	J	K
				PERFORMANCE CERTIFIED	EVENT HISTORIAN	CERTIFIED SIL 2 CAPABLE	HEATED SENSOR OR DISPLAY	IP RATING	ANALOG 4-20 mA	HART DIGITAL	RELAYS	EQP/LON	DIGITAL MODBUS RTU	LOOP POWERED
COMBUSTIBLE GAS	Model	Detected Gases	Operating Temp. Range											
	PointWatch Eclipse®	Hydrocarbons (not hydrogen)	-55 to +75C	▲	▲	▲	▲	66/67	▲	▲	▲	▲	▲	
	CGS Catalytic Bead Sensor	Wide range of combustible gases (including hydrogen)	-55 to +125C	▲	●	▲	●		●	●	●	●	●	
TOXIC GAS	FlexSight™ LS2000 Line-of-Sight	Hydrocarbons (not hydrogen)	-55 to +75C	▲	▲	▲	▲	66/67	▲	▲	▲	▲	▲	
	GT3000	H <sub>2</sub> S, CO, O <sub>2</sub> , NH <sub>3</sub> , Cl <sub>2</sub> , SO <sub>2</sub> , H <sub>2</sub> , NO <sub>2</sub>	-40 to +55C	▲	▲	▲		66/67	▲	▲	●	●	●	▲
	Eclipse CO <sub>2</sub>	CO <sub>2</sub>	-40 to +75C		▲		▲	66/67	▲	▲	▲	●	▲	
ACOUSTIC LEAK	NTMOS	H <sub>2</sub> S	-40 to +65C	▲	●			66/67	▲	●	●	●	●	
	FlexSonic®	Any gas	-55 to +75C	▲	▲	▲		66	▲	▲	●	●	●	
UNIVERSAL DISPLAYS	FlexVu® UD10	–	-55 to +75C	▲	▲	▲	▲	66/67	▲	▲	▲	▲	▲	
	FlexVu® UD20	–	-20 to +70C	▲	▲	▲		66/67	▲	▲				▲

● Additional capabilities when integrated with the FlexVu UD10 Universal Display

- 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

QUALITY // PROTECTION // SOLUTION // FLEXIBLE // FUNCTIONAL // RELIABLE // EXPERIENCED // ENGINEERED // ADVANCED



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

92-1066-1.5

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Det-Tronics is certified to ISO 9001:2008 in all  
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