Combustible and Toxic Gas Detection Solutions

Performance and Safety Beyond Compliance

Reliable Solutions from Det-Tronics, Your Partner in Safety

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

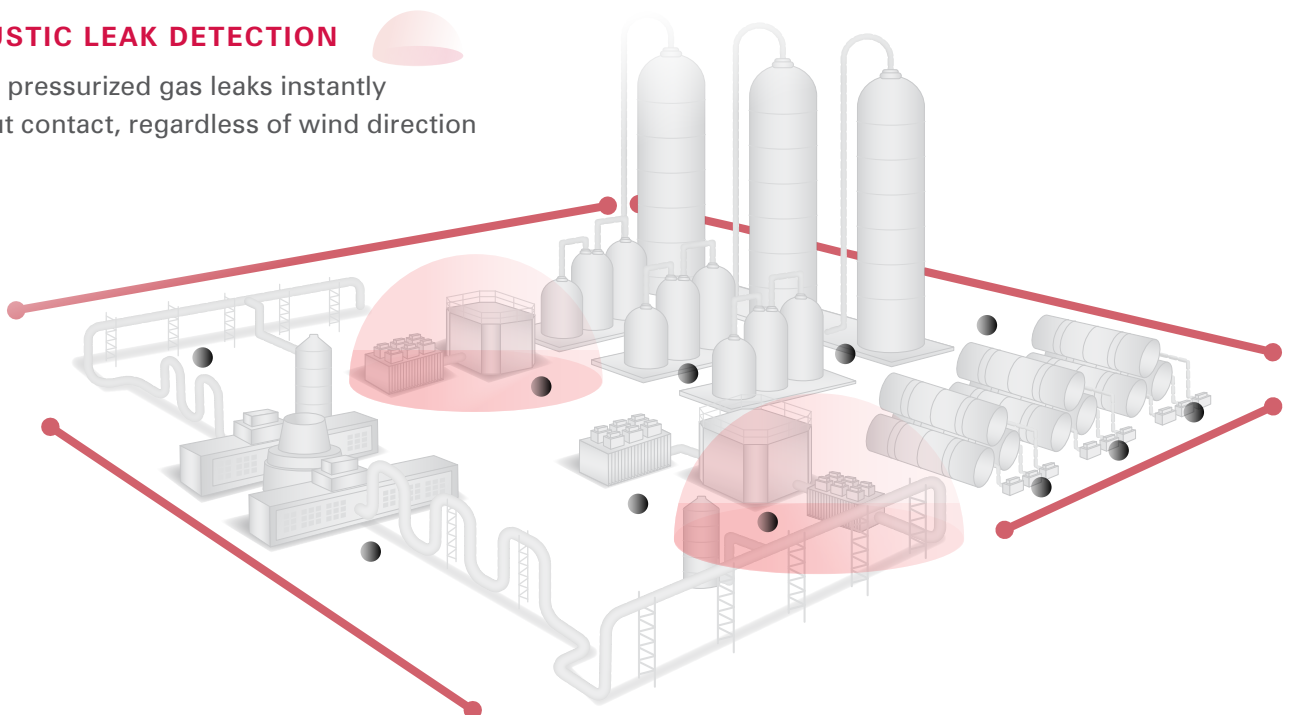## Multiple Layers of Detection

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

Trusted Response with the Utmost Confidence

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

FlexVu® Universal Display

GT3000 Electrochemical Toxic Gas Detector

Pointwatch Eclipse® Infrared Hydrocarbon Gas Detector

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

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

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

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

	Model	Detected Gases	Temp. Range	A PERFORMANCE CERTIFIED	B EVENT HISTORIAN	C CERTIFIED SIL 2 CAPABLE	D HEATED SENSOR OR DISPLAY	E IP RATING	F ANALOG 4-20 mA	G HART DIGITAL	H RELAYS	I EQP/LON	J DIGITAL MODBUS RTU	K LOOP POWERED
COMBUSTIBLE GAS	PointWatch Eclipse®	Hydrocarbons (not hydrogen)	-40 to +75C	▲	▲	▲	▲	66/67	▲	▲	▲	▲	▲	
	CGS Catalytic Bead Sensor	Wide range of combustible gases (hydrogen)	-55 to +75C	▲	●		●	53	●	●	●	●	●	
	Model OPECL IR Line of Sight	Hydrocarbons (not hydrogen)	-40 to +60C	▲	▲	▲	▲	66/67	▲	▲	▲	▲	▲	
TOXIC GAS	GT3000	H_2S, CO, O_2, NH_3, Cl_2, SO_2, H_2, NO_2	-40 to +50C	▲	▲	▲		66/67	▲	▲	●	●	●	▲
	Eclipse CO_2	CO_2	-40 to +75C		▲		▲	66/67	▲	▲	▲	●	▲	
	NTMOS	H_2S	-40 to +65C	▲	●			66/67	▲	●	●	●	●	
ACOUSTIC LEAK	FlexSonic™	Any gas	-55 to +75C	▲	▲	▲		66	▲	▲	●	●	●	
UNIVERSAL DISPLAYS	FlexVu® UD10	–	-55to +75C	▲	▲	▲	▲	66/67	▲	▲	▲	▲	▲	
	FlexVu® UD20	–	-55 to +75C	▲	▲	▲		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

Global support centers

Representative offices

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

92-1066-1.0

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

DET-TRONICS
United Technologies