DET-TRONICS
United Technologies

Certified Fire and Gas Safety Solutions

Ultra-High-Speed Detection and Releasing Systems

Protecting Lives and Property Worldwide

Certified and Listed Systems to Meet Your Ultra-High-Speed Needs

WHEN MILLISECONDS COUNT

The manufacturing of energetic materials, chemical explosives and munitions are among the most hazardous industries. They present unique challenges for the protection of lives and property. These processes require a safety system response in milliseconds.

Det-Tronics has more than 30 years of experience providing robust and reliable ultra-high-speed detection and releasing solutions for these applications worldwide.

LISTED SYSTEM ARE REQUIRED FOR TODAY'S STANDARDS

Standards have evolved over time. Today's ultra-high-speed detection and releasing systems must be capable of response in 100 or fewer milliseconds (ms) from the presentation of an energy source to water flow. The new Det-Tronics ultra-high-speed deluge solution meets current standards for an ultra-high-speed detection and releasing system.

Applicable standards include:

- ▲ Unified Facilities Criteria—UFC 3-600-01 Fire Protection Engineering for Facilities
- ▲ National Fire Protection Association—NFPA 15 Standard for Water Spray Fixed Systems for Fire Protection; and NFPA 72® National Fire Alarm and Signaling Code®

The system must also be listed. NFPA 72 compliance must be achieved by ensuring the compatibility of all components in the system.

GLOBAL AGENCY RECOGNITION

Munition and energetic materials manufacturing require and rely on ultra-high-speed detection and releasing systems.

LEGACY PRODUCTS

Many Det-Tronics legacy ultra-high-speed systems are installed and operating reliably throughout the world.

Due to the evolution of circuit board technology, component availability and codes and standards, the following products will not be manufactured in 2020:

- ▲ C705X Flame Detectors
- ▲ R73XX Controller Series
- ▲ R74XX Controller Series
- ▲ R1425 Detonator Module
- ▲ R6006 Relay Module

Listed fire and gas system components are performance-certified individually and as assembled systems.

TOTAL SYSTEMS SOLUTION FOR BOTH HAZARDOUS AND ORDINARY LOCATIONS

The Det-Tronics Eagle Quantum Premier® (EQP) ultra-high-speed safety solution is **certified SIL 2 capable to function in challenging, high-hazard environmental conditions.**

Both Det-Tronics devices and systems are listed—an official designation that means the Authority Having Jurisdiction (AHJ) recognizes the systems as acceptable and the installed systems pass regular inspections.

Choose Det-Tronics with confidence to engineer, manufacture and test turnkey systems built to your requirements.

THE KEY ELEMENTS BUILT INTO DET-TRONICS CERTIFIED AND LISTED SYSTEMS

EQP SAFETY SYSTEM CONTROLLER

- ▲ Listed by FM Approvals
- ▲ Easy integration with building fire panels or process control systems

X-SERIES OPTICAL FLAME DETECTORS

- ▲ Capable of responding to an energy source as fast as 15 ms
- ▲ Available in ultraviolet (UV) infrared (IR), and UV/IR

POWER SUPPLY AND BATTERY BACKUP

- ▲ FM Approved for use with the EQP safety system
- ▲ Provides monitoring of the A/C supply and for ground faults

HIGH-SPEED DELUGE MODULE

- ▲ Capable of responding to an input in less than 2 ms
- ▲ Six input and six output channels

SAFETY CABINETS

- ▲ FM Approved assemblies available
- ▲ Hazardous location models available

SYSTEM ENGINEERING

- ▲ Built to customer requirements
- ▲ Can provide cause and effects, factory acceptance testing and drawing packages

The Global Leader in
Fire and Gas Safety Systems

▲ Det-Tronics offices

● 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

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