



For Immediate Release

Contact: Katherine Boosalis
+1 952-833-8667
Katherine.Boosalis@det-tronics.com

Det-Tronics Expands Detection Capability of X3302 Multispectrum Infrared Flame Detector

FM Approved and certified SIL2-capable for hydrogen, as well as methane, methanol and syngas

MINNEAPOLIS, June 17, 2019 — The X3302 multispectrum infrared flame detector (X3302) from [Det-Tronics](http://www.det-tronics.com) is now third-party approved for the industry's largest field-of-view for hydrogen fires, as well as approved for methane, methanol and synthesis gas (syngas) fires. Det-Tronics, a global leader in fire- and gas-safety systems, is a part of Carrier, a leading global provider of innovative heating, ventilating air conditioning (HVAC), refrigeration, fire, security and building automation technologies.

The X3302 flame detector's enhancements include third-party certification to detect a 30-inch (76 cm) hydrogen plume fire at 125 feet (38 meters) on-axis in as little as three seconds, a 25% improvement in on-axis detection range over the previous design.

In addition to being certified SIL 2-capable and performance-certified to FM 3260 for hydrogen fires, the X3302 is now FM Approved to detect methanol, methane and syngas fires, which contain a mixture of 53% hydrogen, 24% methane, 11% nitrogen, 8% carbon monoxide and 4% carbon dioxide. Other certifications include CSA, ATEX, IECEx, INMETRO and California State Fire Marshall. Additional global certifications are pending.

Recently, gas streams for turbine power generation have transitioned to mixtures of hydrogen, methane and other gases. The X3302 can provide fire protection for these applications without requiring supplemental hydrocarbon flame detectors. The X3302 flame detector is also suited for hydrogen storage, aerospace, battery rooms, refining and filling stations.

The X3302 flame detector has a patented detection algorithm, heated optics and signal processing features which increase false alarm rejection. The patented Automatic Optical Integrity (AOI®) feature, an automatic calibrated performance test that is conducted once per minute, verifies complete operational capabilities. The detector will declare a fault if it loses more than 50% of its original detection range, proactively alerting operators to a potential loss of fire protection.

“We are excited to offer the X3302 with expanded detection capability that addresses the need for reliable, fast multi-fuel fire detection at greater distances,” said Michael Hosch, product manager, Det-Tronics. “In addition to its enhanced functionality and safety record, our customers will continue to appreciate that the X3302 is easy to install and maintain, which reduces total operational costs.”

For more information visit www.det-tronics.com.

About Det-Tronics

Det-Tronics is the global leader in fire and gas safety systems, providing premium flame and gas detection and hazard-mitigation systems for high-risk processes and industrial operations. The company designs, builds, tests and commissions certified SIL 2-capable flame and gas safety products that range from conventional panels to fault-tolerant, addressable systems that are globally certified. Det-Tronics is a part of Carrier, a leading global provider of innovative HVAC, refrigeration, fire, security and building automation technologies. For more information, visit www.det-tronics.com.

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