# Fire Sentry SS2 Flame Detectors

**Honeywell**



**Multi-Spectrum Digital
Electro-Optical Flame Detectors**

# Fire Sentry SS2 Detectors

## Features

**Fire Sentry SS2-A and SS2-AN:**

- Multi-Spectrum senses ultraviolet, visible and WideBand IR™
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar blind
- Greatest sensitivity with false alarm immunity
- Microprocessor abased algorithms: FirePic™ and Tri-Mode Plot™
- Wide temperature range of operation
- Explosion-proof housing
- Proven in worldwide applications
- FS2000™ System compatible or standalone operation
- Compatible with approved fire alarm panels

**Fire Sentry SS2-AM and SS2-AML:**

- Multi-Spectrum senses ultraviolet, visible and WideBand IR™
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar blind
- Greatest sensitivity with false alarm immunity
- Microprocessor abased algorithms: FirePic™ and Tri-Mode Plot™
- Wide temperature range of operation
- Explosion-proof housing
- FS2000™ System compatible or standalone operation
- Ultra-high speed response to explosive fires

**The Fire Sentry SS2 represents the world's pre-eminent UV/IR technology for Electro-Optical Flame Detectors with thousands successfully operating in a multitude of installations worldwide. These Multi-Spectrum detectors sense radiant energy in the ultraviolet (UV), visible and WideBand Infrared™ (IR) spectrum. The radiant energy from all types of flaming fires will alert the detectors to their presence.**

The Fire Sentry SS2-AM and Fire Sentry SS2-AML are the ultra-high speed digital Multi-Spectrum optical models of the Fire Sentry SS2 UV/IR flame detectors. These detectors feature ultra-high speed responses to explosive fires and are typically used in munitions production, explosives production and special applications.

# Fire Sentry SS2 Detectors

The field of view for the Fire Sentry SS2 detectors is the widest in the industry with a 120° cone of vision. This means more hazard area can be covered by each detector. Greater sensitivity also increases the volume covered by each detector, up to four times more than some other detectors.

Using sophisticated microprocessor signal processing algorithms with complete spectrum information, virtual immunity to false alarms from arc welding, corona discharge and other common UV sources is achieved.

## Operation

The Fire Sentry SS2 detectors operate from standard 24 Volt DC power and interfaces to approved fire alarm panels or standard PLC's. When power is applied, a self-test is performed and the fault relay resets to show no faults. The front LED lights flash every ten seconds to indicate power is on.

The continuous spectral data stream of information from the sensor array is analyzed by the microprocessor. Upon alarm, the detector activates the alarm relay and stores all the pre-fire spectral data in non-volatile memory for retrieval and evaluation. This FirePic™ data can be used to postulate the cause of the fire.

As part of the FS2000™ System, the lens and complete optical path can be checked using COP-i™ Test Sources in the system. Connection into the FS2000 System is by the four wire RS-485 FireBus™ I.

## Applications

### Fire Sentry SS2-A and SS2-AN:
- Petrochemical Facilities and Refineries
- Co-Generation Plants
- Aircraft Hangars
- Silane Gas Storage
- Gas Turbines & Power Plants
- Gas Compressor Stations

### Fire Sentry SS2-AM and SS2-AML:
- Munitions Production
- Explosives Production
- Manufactore of other explosive materials
- Silane & Hydrogen Gas Storage
- Special Applications

# Honeywell Analytics Lines of Business





## Commercial

Gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

» Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

## Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

» Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

## Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

» Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets




## High Tech/Government

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

» Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

## Technical Services

24/7 global network includes post-sales service and Systems Integration teams

» Emergency call out, service contracts, on/off-site repair, training and commissioning
» Complete range of spares, consumables and accessories

**Find out more**
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Fire Sentry Corporation is now part of Honeywell Analytics. As we begin to fully integrate our companies, you might notice some small changes. This integration is about bringing together two of the best in life safety. We are focused on putting our customers first and making the right decisions to guarantee Honeywell Analytics continues to remain the experts in fire and gas safety.

**Honeywell**