

New Product Announcement from the **MSA Instrument Division**

MSA (Mine Safety Appliances Company), Pittsburgh, Pa.



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For Immediate Release

The SafEye “Open Path” Gas Detection System

A long-range open-path gas detection system, the **SafEye* Gas Detection System**, is available from the MSA Instrument Division, Pittsburgh, PA. This system can detect hydrocarbons and toxic gases at low concentrations up to the lower explosion limit (LEL). Detection of these gases is done over an open path of up to 450 feet (135 meters).

Open Path gas monitoring is cost-effective, providing complete gas detection of an open area along a line of sight. Standard point-type gas monitors provide coverage at the location of the sensor only, while Open Path provides complete linear coverage across an open area. Advantages include lower installation and maintenance costs, as one SafEye Gas Detector can replace ten or more point-type detectors.

The SafEye Gas Detection System can be used in many applications including:

- fence line monitoring for chemicals or hydrocarbon vapors leaving the plant site
- fuel or chemical tank leak detection at storage sites
- fuel loading into trucks, ships, barges, etc.
- pipe line or vent stack monitoring of toxic and combustible gases

(more)

- compressor and pumping stations
- drying ovens

The SafEye Gas Detection System consists of two units, a light source and a detector. The infrared light source flashes a unique wavelength of light specific to hydrocarbons toward the detector. The detector then analyzes the absorption of the various light components to determine the gas concentration between the two units. The flashing light is synchronized with the detector to help eliminate false alarms. The system is not affected by rain, sleet, snow, fog, radiation from welders, the sun or other background light sources. By using the optional ultraviolet source and detector, hydrogen sulfide (H₂S) and aromatic hydrocarbons such as benzene, toluene and xylene can also be detected.

The light source and detector are simple to install, operate and maintain. Simply apply power and align one unit to the other via the front panel LED signal strength indicators. Both units are housed in heavy-duty copper-free aluminum housing finished with an epoxy, enamel paint. The windows are sealed with O-rings to prevent intrusion of dust, salt spray and foam/water fire fighting agents.

The 4-20 mA output can be connected to any type of monitoring or control unit. An optional RS-485 communication link provides a local networking interface of as many as 128 detectors. Relay contacts are provided for both the IR and UV channels.

For more information on the **SafEye Gas Detection System** request literature 07-2014, by dialing 1-800-MSA-4678, or contact your nearest MSA sales representative. To learn about MSA and our other high quality products, visit our web site at:

www.MSAgasdetection.com

*SafEye is a trademark of Spectrex, Inc.

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