

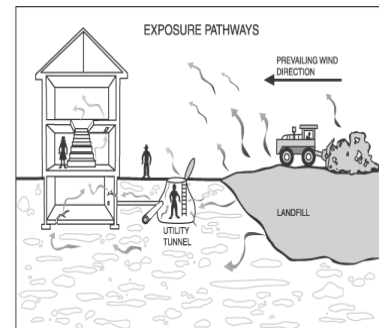
Sierra Monitor Corporation Brownfield & Landfill Gas Detection Systems

Typical Locations and Applications

- Housing Developments on Brownfield & Landfill Sites
- Retail and Office Parks
- Underground Parking Structures
- Sports and Leisure Sites
- Sheltered Housing
- Industrial Buildings
- Public Building Developments e.g. Hospitals, Schools, Prisons

Brownfield/Landfill Gas Safety Detection Systems

Since 1984 Sierra Monitor Corporation has been providing gas monitoring solutions for buildings constructed on brownfield & landfill sites. Methane, Hydrogen Sulfide, Ammonia, Carbon Dioxide and other toxic gases from abandoned industrial sites, power stations, mine workings or landfill sites may, if undetected, pose a potentially serious threat to anyone living or working nearby. It is essential that such risks be minimized by the use of continuous and accurate gas monitoring within all areas where gases may accumulate and pose a threat.



Sierra Monitor Corporation offers a cost effective, accurate and reliable solution for the continuous sampling of potentially harmful gases from contaminated sites. The Sentry System from Sierra Monitor is available for commercial and industrial buildings, and can be configured in a special outside enclosure for residential housing.

How the Brownfield/Landfill Gas Detection System Works

Sierra Monitor Corporation Brownfield & Landfill Gas Safety Monitoring Systems use innovative infrared sensors or reliable poison resistant catalytic bead sensors to measure the concentration of Methane that may be present.



Toxic gases requiring detection in the PPM range use a reliable and accurate electrochemical sensor.

Sentry gas detection systems provide a powerful but cost effective solution to gas monitoring demands for a broad range of industrial applications. With Sentry the user has comprehensive alarm logic, event response and critical data retention necessary to assure that safety requirements are met and that due diligence is documented. Sentry provides you with data-logging hard copy printer reports, self-diagnostics and operator/system interface through integral alphanumeric display. The Sentry System can monitor up to 8 locations from a single installation and sensor multiplexing capabilities

provide you with reduced installation costs while its high-density configuration allows up to 32 channels in a 19" rack.

The Sentry System can sample air from any part of the building whether accessible or not. This is useful to detect ingress of gas through the slab by positioning the detectors in positions such as vent risers, water mains and electricity inlets.

Key Features of the Sierra Monitor Sentry Brownfield/Landfill Gas Monitoring System

- FM approved 6 Month calibration cycle for catalytic bead sensor (Competitors are typically only 3 months)
- FM Performance Approval and hazardous area approval on Sentry System and all components
- Digital control and set-up of all functions allowing easy and low cost installation
- Recall of alarm events: zone, gas concentrations, date and time
- Each Sentry Controller monitors up to 8 points (system has no limit on expansion)
- Easy one man non-intrusive calibration
- Can measure % LEL or % by Volume Methane
- Two stage alarm outputs with relays to switch on ventilation fans
- Clear indication of fault on large LCD display
- Sensors are FM approved for Class 1 Div. 1 Groups B, C, & D
- Can be configured to measure under the slab or in vent risers
- Print on demand function documents time stamped events
- 115 VAC or 12-28 VDC operation with built in battery backup transfer switch

