

Landfills, both closed and open landfills, generate combustible gas in the decomposition of the waste. Certain toxic gases can also be generated in this process. This combustible gas generation is of particular concern when buildings are put on top of a closed landfill or surrounding a closed or open landfill.



Where the hazardous conditions are the greatest, it is necessary to have a gas monitoring system that can constantly monitor the conditions even if humans are not presently in the area. Build up of combustible gases can cause a hazard to the facility, particularly in enclosed areas such as basements and crawlspaces that might contain HVAC or electrical equipment.

The **Sentry Gas Detection System** is designed for monitoring these hazardous conditions and providing the necessary information efficiently and in a comprehensive manner so that operators can quickly make decisions to protect the plant and personnel.

The **IT Series Smart Gas Sensor Modules** offer the advantages of easy to install remote mounting configuration, a selection of outputs (4-20 mA, Modbus RTU, relay output, digital display) to meet the specific monitoring and control requirements of landfill operations.

The **Sierra Monitor Analog Gas Sensor Modules** and Gas Alarm Monitors can be used where the potential hazard is less.

The **FieldServer Gateway** provides the interface necessary for safety devices, process equipment and facility controls so that these various individual systems and devices can communicate to the centralized control systems or building automation systems in the buildings operating on BACnet, LonWorks, Modbus, ControlNet, EtherNet/IP or other protocols