

MSA Chemgard Monitor Application



For Monitoring Fuel Leaks in Refinery Applications; Engine Test and Fuel Blend Rooms

Application

A key safety concern in refinery engine test and fuel blend rooms is gasoline leakage onto the floors. Catalytic bead sensing technology, which has previously been used for such applications, and point infrared sensing technology typically do not respond very well because the vapor pressure of many fuels including gasoline is too low to produce sufficient vapors to form LEL levels. It is difficult to get the rapidly evaporating light ends to make their way to the sensor in a concentration that is significant enough to be detected.

Solution

The Chemgard Photoacoustic Infrared Gas Monitor provides an excellent solution for detection of gasoline and other fuel vapors in this type of monitoring application due to its ability to detect low ppm levels. A multi-point system (up to 8 points) with strategically located sample points can be used to cover a large room area. The Chemgard Monitor's sample draw system pulls the gasoline vapors to the sensor from a distance up to 500 feet. Simply install a multipoint system at strategically located sampling areas and calibrate it. Instead of using gasoline to calibrate the unit, commercially available gases such as pentane or hexane can be used as a synthetic span gas thus providing a simple calibration solution. With detection capability down to 3 ppm, the multi-point Chemgard Gas monitor provides an effective monitor for detection of fuel leaks. Additionally, the photoacoustic infrared technology used in the Chemgard can easily detect below the toxic levels for exposure to gasoline.

Gasoline	
Composition	Various hydrocarbons
TWA	300 ppm
STEL	500 ppm
LEL	1.4 % to 7.6 %
Chemgard Detection Limit	3 ppm



Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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