



## Application

Major cities frequently operate large networks of storm water pump stations that are used to handle the runoff of heavy rain. These enclosed pump stations are driven by combustible natural-gas-powered engines that require methane monitoring to help ensure worker and facility safety. Storm water pump station sumps also need to be monitored for potentially high LEL conditions caused by illegally dumped waste solvents and other combustible compounds that are carried in with the storm waters.

## Product Description

The multi-point MSA Chemgard® Photoacoustic Infrared (PIR) Gas Monitoring System is designed as 4-point or 8-point sample draw system and features advanced photoacoustic infrared (PIR) sensing technology. This system detects up to 100% of the lower explosive limit (LEL) of combustible gases, including methane, in these pump stations. To meet classified area requirements, the system includes flash back arrestors which isolate the unit from the area in which the sample is gathered. With its low-level detection capabilities, the Chemgard Monitoring System detects even minor changes in hydrocarbon levels, alerting operators of spills into the system. The Chemgard Monitor is extremely stable, highly selective and can operate for months with virtually no zero drift. Compared to other systems, the Chemgard Monitoring System features a lower initial hardware cost, lower installation cost, and lower routine maintenance cost (with periodic calibration of a single sensor versus eight sensors). The system is available in either a NEMA 4, XP or rack-mount enclosure.

For more information on the standard Chemgard Gas Monitor see data sheet #07-2033.

# MSA Gas Detection System

[ Methane and Hydrocarbon Monitoring  
in Storm Water Pump Stations ]



## Specifications

### Operating Temperature

**Range:** 0-50°C, 32-122°F

**Power Requirements:** 120 VAC ±10% at 0.56 amps or 240 VAC ±10% at 0.3 amps

**Alarm Relays:** 3 relays at 8 amps resistive

### Enclosures:

NEMA 4: 18"H x 16"W x 7"D; 40 lbs.

19" Rack Mount: 7"H x 17-5/8"W x 15-1/4"D; 19 lbs.

Explosion Proof (XP): 19-1/8"H x 19-1/8"W x 9-1/2"D; 100 lbs.



Interior, Chemgard Gas Monitor

**Note:** This is a representative description of this product and its potential applications. Contact MSA Custom Products at [customproducts@msanet.com](mailto:customproducts@msanet.com) for information on customizing this unit to fit a specific need.

**Note:** This Data Sheet contains only a general description of the product shown. While uses and performance capabilities are described, under no circumstances should the product be used except by qualified, trained personnel, and not until the instructions, labels or other literature accompanying the product have been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning this product.

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