

Methane Monitor

GEM-500™ Landfill Gas Monitor

The GEM-500™ is an all weather, self contained portable monitor which uses a self-compensating gas analyzer. It has a rechargeable power supply for all day use, and an internal sample pump capable of drawing a gas sample at up to 70" vacuum WC. This light-weight portable unit integrates nine field instruments with one on-board computer.

FEATURES

- **Methane analysis**
Displayed as either % CH4 by volume or LEL
- **Infrared gas analyzer**
Provides high-tech accurate measurement of CH4 and CO2
- **Durable oxygen sensor**
Provided by the galvanic cell principle, unaffected by 6 other gases such as CH4, CO2 or H2S
- **User friendly on-screen menu**
Guides user step by step through all functions and options
- **Quick analysis**
Completes sampling and displays gas analysis and flow results in usually less than 1 minute
- **All weather use**
Designed to operate in hot/wet weather extremes from 14°F-104°F
- **Multi-functional**
Provides automatic sampling and analysis of landfill gas composition, temperatures, pressures
- **Light weight compact size**
Weighs less than five pounds
- **Durable construction**
Built of strong, durable plastic material suitable for harsh landfill environments. Sealed tactile keyboard
- **Battery check**
Monitors battery life remaining
- **Rechargeable batteries**



GEM-500™

APPLICATIONS

For use in landfills to monitor (Landfill gas LFG), migration control systems, gas extraction systems, flares, migration probes, LEL levels, subsurface fires and more.

SPECIFICATIONS

| | Sensor range | Resolution | Typical Accuracy | | | |
|--------------------|--------------|------------|------------------|-----------------|-----------------|----------------|
| | | | Concentration | % CH4 by Volume | % CO2 by Volume | % O2 by Volume |
| Methane -CH4 | 0-100% | 0.1% | 5% (LeI, CH4) | ±0.3% | ±0.5% | ±0.25% |
| Carbon Dioxide-CO2 | 0-60% | 0.1% | 75% | ±1.9% | ±3.0% | n.a |
| Oxygen-O2 | 0-25% | 0.1% | | | | |
| Pressures (diff.) | 0-10" W.C. | 0.01" W.C. | | | | |
| (static) | 0-100" W.C. | 0.1" W.C. | | | | |

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