

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.				

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com