SEM5000 GEOTECH



SEM5000 | LEAK DETECTION

The SEM5000 Portable Methane Detector is the ideal instrument for landfill surface emissions monitoring, reporting and detecting potential leaks at wellheads and surface penetrations. Thanks to our patented laser technology,

The SEM5000 is selective, specifically to Methane and is able to detect Methane emissions from oppmVol to 100%Vol concentration.

FEATURES

- Specific to Methane
- Wide Measurement Range (0 ppm to 100% volume)
- Rapid Response (Less than 2.5 seconds)
- Integral GPS and Bluetooth
- GPS Accuracy: 2-4 Metres
- ATEX Certified Zone 1
- Laser Technology
- Lightweight
- Ergonomic
- Selector Dial Interface
- Proprietary Software
- Hot Swap Battery
- Expanded Memory
- Biennial Calibration

BENEFITS

- No Cross-Gas effect or False Readings
- Accurate Measurement
- No Additional Devices Required
- Accurate Reporting
- Intrinsically Safe
- Highly Accurate, No Flame, No Hydrogen
- Weighs Half as Much as Competing Technologies
- Hands-Free Operation
- Easy to Use
- Multiple Reporting Functions
- Holds up to 480 Hours of Scan Data
- Saves Money



SEM5000 TECHNICAL SPECIFICATIONS



POWER SUPPLY				
Battery type	Lithium Ion Rechargeable Battery Pack (3.7V - 4000mA/h)			
Battery life	10 hours at 20°C (with backlight activated). 8 hours at extreme temperatures			
Battery charger	Separate intelligent battery charger powered from mains supply (100-240V)			
Charge time	Approximately 4.5 hours from complete discharge			
GAS RANGES		· · ·		
Gases Measured	CH₄			
Range	0-10,000ppm / 1%-100% (Vol)			
Response time	Without Probe		With Probe	
	T90 = 2s		T90 = 3.5s	
Accuracy	1-10ppm		10-10,000ppm	
	+/- 0.7ppm +/-10% FS			
Resolution	0.1ppm / 0.1%			
Minimum detectable limit	0.3ppm			
PUMP				
Flow	Minimum	Тур	vical	Maximum
	0.6 L/Min	0.8 L	/Min	1.0 L/Min
ENVIRONMENTAL CO	ONDITIONS			
Operating Temperature	-25°C to +50°C			
Atmospheric Pressure Range	1013mbar +/-100mbar			
Humidity Range	5% to 80% Relative Humidity (non -condensing)			
Protection level	IP65			
PHYSICAL				
Case	Carbon reinforced polyamide with fiberglass			
Size	L 229mm, W 97mm, D 109mm			
Weight	1.3kg			
Environmental Storage	Humidity <95%			
conditions	-40°C to +60°C			
Alarm sound level	65 dB (A) @ 30cm			
User Interface	Large Dot Matrix Display			
	Jogdial: Scroll menu for rapid and easy selection of menu items			
	2 function keys			
Alarms	Methane concentration threshold			
	Pump flow fail			
Gas connections	Quick release coupler			
Electrical connections	Multiway adaptor for battery charger and USB communications with a PC 30mm wide synthetic woven strap			
Carrying strap Status indicators	Measurement mode			
Status indicators	Battery level			
	Pump			
	PC communications			
CERTIFICATION RATI				
ATEX	(E.)		T3 Gb -25°C≤Ta≤	<+50°C



Envirotecnics Global Service SL Oficinas y Fabricación: Calle dels Pirineus 71 - 17460 Celrà España Tel: 872 080 542 Fax: 872 080 543 Delegación Madrid: Avda Fuentemar, 20 Nave B-10 Parque Navegando - 28823 Coslada Tel: 916 780 039 Servicio al cliente: envirotecnics@envirotecnics.com

