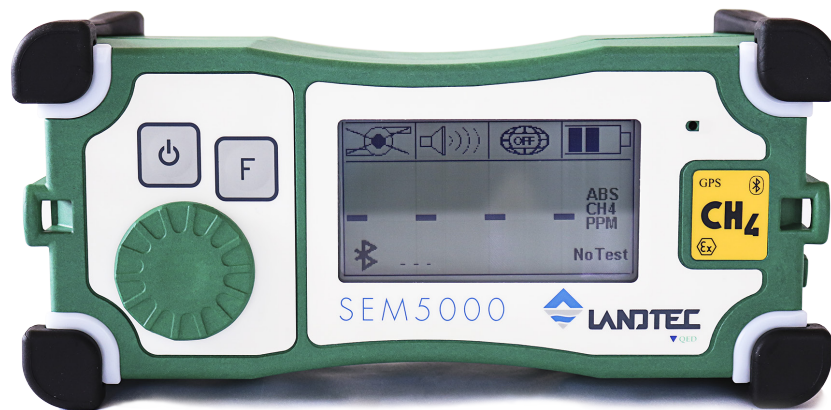


## THE EASY WAY TO MONITOR SURFACE EMISSIONS

# SEM5000

## PORTABLE METHANE DETECTOR



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 0.5ppm to 100% concentration. The SEM5000 is ATEX Zone 1 certified and meets all Method 21 requirements, making it the perfect tool for regulatory compliance.



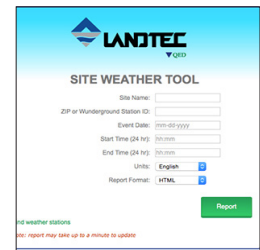
The hot swap battery saves time and allows you to keep working. The SEM5000 works as long as you do.



The SEM5000 is ATEX certified and meets Method 21 requirements for regulatory compliance.



Our proprietary SEMsoft software is easy to use and offers multiple reporting functions.



The QED Online Weather Tool provides accurate reporting of weather conditions for your scan events.



## 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 Meters  
Meets EPA Method 21 Requirements  
ATEX Certified – Zone 1  
Laser Technology  
Lightweight  
Ergonomic  
Selector Dial Interface  
Proprietary Software  
Hot Swap Battery  
Expanded Memory  
Biennial Calibration

## BENEFITS

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

## TECHNICAL SPECIFICATION

Target Gas	Methane (CH <sub>4</sub> )
Detection Method	Tunable Diode Laser Absorbtion Spectroscopy
Measurement Range	0.5ppm to 100% volume
Instrument Resolution	0.1ppm (0 - 100ppm) 1ppm (100 - 1,000ppm) 5ppm (1,000 - 5,000ppm) 10ppm (5,000 - 10,000ppm)
Pump Flow Rate	0.6 to 1 l/min
Sampling Probe Outside Diameter	4mm
Intrinsic Safety	ATEX Zone 1 Ex II 2 G Ex ib op is IIB T3 Gb Tamb: -30°C to +50°C
Response Time	T90 = 2.5 seconds T90 = 3.5 seconds (w/probe)
GPS Accuracy	2 to 4 meters
Power Supply	Lithium Ion Rechargeable Battery Pack (3.7V - 4000mA/h)
Battery Autonomy	10 hours at 68°F (with backlight activated). 8 hours at extreme temperatures
Battery Charge Duration	8 to 10 hours to full charge
Temperature Range	-13°F to 122°F
Warm Up Time	30 to 60 seconds
Weight	3.5 lbs.
Enclosure Protection Level	IP65 / NEMA4
Factory Calibration Requirement	2 years
Field Calibration	Daily (meets Method 21; sections 7.0, 8.0)

