

## PORTABLE METHANE DETECTOR



### FEATURES

- LASER Technology
- Wide Measurement Range (0 ppm to 100% volume)
- Integral GPS and Bluetooth
- ATEX Certified – Zone 1
- Meets EPA Method 21 Requirements
- Lightweight

### BENEFITS

- No Cross-Gas or False Readings
- Accurate Measurement
- Accurate Reporting
- Maintains Compliance
- Highly Accurate, No Flame, No Hydrogen
- Multiple Reporting Functions
- Intrinsically Safe
- Easy to Use



## THE EASY WAY TO MONITOR SURFACE EMISSIONS

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.

© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.

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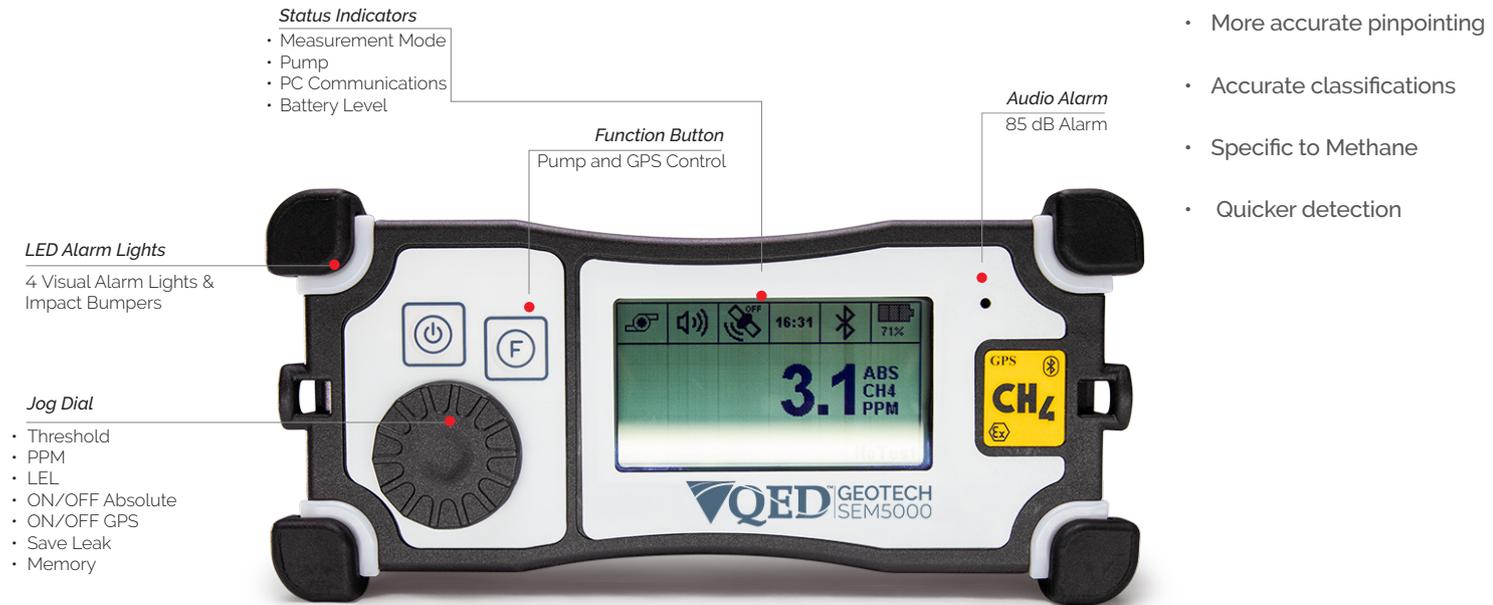


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# SEM5000



- More accurate pinpointing
- Accurate classifications
- Specific to Methane
- Quicker detection

## 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)<br>1ppm (100 - 1,000ppm)<br>5ppm (1,000 - 5,000ppm)<br>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<br>Tamb: -30°C to +50°C                                  |
| Response Time                   | T <sub>90</sub> = 2.5 seconds<br>T <sub>90</sub> = 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 20C (with backlight activated). 8 hours at extreme temperatures                          |
| Battery Charge Duration         | 8 to 10 hours to full charge   |
| Temperature Range               | -25C to 50C  |
| Warm Up Time                    | 30 to 60 seconds   |
| Weight                          | 1.6 kg   |
| Enclosure Protection Level      | IP65 / NEMA4   |
| Factory Calibration Requirement | 2 years  |
| Field Calibration               | Daily (meets Method 21; sections 7.0, 8.0)   |



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