

SEM5000



GEO TECH

by QED

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 ppmVol 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



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

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 | CH ₄ | | |
| 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 | Typical | Maximum |
| | 0.6 L/Min | 0.8 L/Min | 1.0 L/Min |
| ENVIRONMENTAL CONDITIONS | | | |
| 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 conditions | Humidity <95% -40°C to +60°C | | |
| Alarm sound level | 65 dB (A) @ 30cm | | |
| User Interface | Large Dot Matrix Display: 240 x 128 | | |
| | 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 | | |
| Carrying strap | 30mm wide synthetic woven strap | | |
| Status indicators | Measurement mode | | |
| | Battery level | | |
| | Pump | | |
| | PC communications | | |
| CERTIFICATION RATING | | | |
| ATEX |  II 2 G Ex ib op is IIB T3 Gb -25°C≤Ta≤+50°C | | |

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