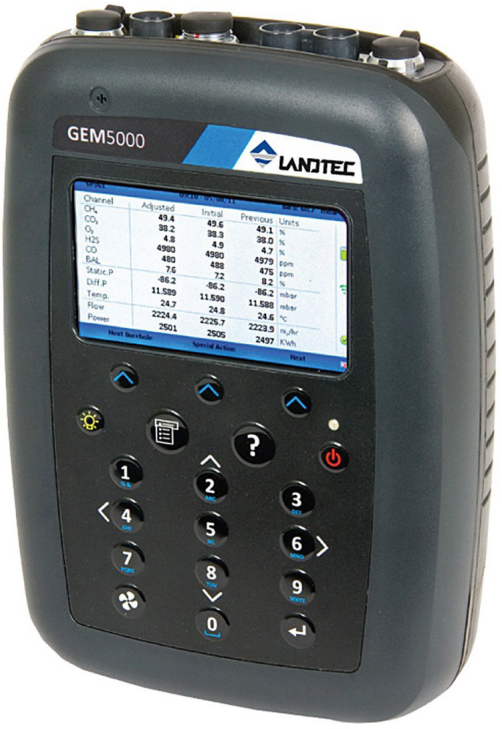

QED/Landtec

Landtec GEM 5000 Plus Landfill Gas Monitor

Pine Item #51158

DESCRIPTION:

The Next Generation of GEM™ Instrument

The GEM™5000 is designed specifically for use in landfills to monitor Landfill Gas (LFG) Collection & Control Systems. The GEM™ 5000 samples and analyzes the methane, carbon dioxide and oxygen content of landfill gas with options for additional analysis.

GEM5000 Complete Package Includes:
The instrument, hoses, heavy-duty water trap filter, soft case, A.C. battery charger, electronic manual accompanies the software, LANDTEC System Gas Analyzer Manager (LSGAM) software, USB download cable, and hard-case. Reads: Methane, Carbon Dioxide, Oxygen, temperature (when used with optional probe), atmospheric pressure, differential pressure and calculates gas flow.

NAV and Plus model packages also include more features such as GPS and additional gas measurements

FEATURES:

- Measures % CH4, CO2 and O2 Volume, static pressure and differential pressure
- Calculates balance gas, flow (SCFM) and calorific value (KW or BTU)
- High Accuracy and Fast Response Time
- Lighter and More Compact
- Certified intrinsically safe for landfill use
- Calibrated to ISO/IEC 17025

APPLICATIONS:

- Designed specifically for use in landfills to monitor landfill gas (LFG) extraction systems, flares, and migration control systems.
- Can be used for monitoring subsurface migration probes and for measuring gas composition, pressure, and flow in gas extraction systems
- Environmental compliance

Product Specifications

Gases Measured	CH_4 - By dual wavelength infrared cell with reference channel CO_2 - By dual wavelength infrared cell with reference channel O_2 - By internal electrochemical cell CO - By internal electrochemical cell H_2S - By internal electrochemical cell
Gas Ranges	CH_4 - 0-100% (vol) CO_2 - 0-100% (vol) O_2 - 0-25% (vol) CO - 0-2000ppm*** H_2S- 0-500ppm***
Gas Accuracy*	CH_4 - 0-5% ± 0.3% (vol); 0-70% ± 0.5% (vol); 70-100% ± 1.5% FS CO_2 - 0-5% ± 0.3% (vol); 0-60% ± 0.5% (vol); 60-100% ± 1.5% FS O_2 - 0-25% ±1.0% (vol) CO (H_2)** - 0-2000ppm ± 2.0% FS H_2S- 0-500ppm ± 2.0% FS
Pump Flow	Typically 550cc/min
Pump Flow with 80 in. H2O vacuum	Approximately 80cc/min
Operating Temperature Range	14°F – 122oF (-10oC to +50oC)
Operating Pressure	-100 in. H2O, +100 in. H2O (-250mbar, +250mbar)
Relative Humidity	0-95% non condensing
Barometric Pressure	± 14.7 in.Hg (±500mbar) from calibration pressure
Barometric Pressure Accuracy	± 1% typically
Battery Life	Typical use 8 hours from fully charged
Charge Time	Approximately 4 hours from complete discharge
Energy	Unit: BTU/hr Resolution: 1000 BTU/hr Comments: Calculated from specific parameters
Static Pressure	Unit: in. H_2O Resolution: 0.01 in. H_2O Comments: Direct Measurement
Differential Pressure	Unit: in. H_2O Resolution: 0.001 in. H_2O Comments: Direct Measurement
Temperature Accuracy	Unit: °F Resolution: 0.1 Comments: ±1 (Range -58°F to 482°F)

* Typical accuracy after calibration as recommended in the operations manual.
**Hydrogen compensated Carbon Monoxide measurement.
***Additional ranges available, contact LANDTEC for more information.

Important Note: The information in this document is correct at the time of generation. We do, however, reserve the right to change the specification without prior notice as a result of continuing development.

Video:
https://youtu.be/HE9dAj-diauE

Local Delivery Pick-up

In-Stock Equipment

Repair & Calibration

Rental Protection Plan