

LandTec's GEM PRO, is a handheld gas monitoring system designed for rugged field environments. It features QED's unique intelligent modular architecture, which allows users to control and add gas modules in the field. This allows users to customize the system, depending on the specific gas monitoring needs. With a high-definition touch screen display that not only makes it easier to use but also reduces fatigue and potential errors, the GEM PRO is a reliable and efficient solution for gas monitoring that simplifies your air quality control project.

FEATURES

- Calibrated before purchasing with modular capabilities
- Up to 7 Gases measured
- Records static, differential & system pressures - Calculates gas flow & heat value
- Full editing control in the Field
- Field Replaceable Battery Pack
- Zone 1 Hazardous Area Certified
- GAMSsoft software included
- 3 Year Warranty

BENEFITS

- Customer controls back-to-base service to replace modules
- Individual calibration certificates for every module
- Configuration and functional flexibility
- Accurate balancing of gas field to maximize LFG output
- Real time gas field adjustments
- Effective borehole management
- Over 8 hours of field operation between battery charges and longer days with optional hot swap battery
- Secure, wireless communication
- Compliance and monitoring reporting and over the air firmware updates



CALL GEOTECH TODAY

(800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue Denver, Colorado 80205

(303) 320-4764 FAX (303) 322 7242

email: sales@geotechenv.com website: www.geotechenv.com

Power							
Battery Type	Rechargeable Nickel Metal Hybrid Battery Pack						
Battery Life	8 - 10 Hours full charge						
Battery Charger	Charger powered from mains supply (100-240V), Packs charged separately from the instrument.						
Charging Time	3 Hours						
Gas Ranges							
Gases Measured	Gas	Sensor	Range	Typical Accuracy*	Resolution	T90	
	CH4	Dual Wave Infrared	0 - 100%	± 0.5% (0-70%) Volume	0.1%	<10 Seconds	
	CH4		0- 100%	± 0.5% (0-70%) Volume	0.1%	<10 Seconds	
	CO2		0- 100%	± 0.5% (0-60%) Volume	0.1%	<10 Seconds	
	O2	Electrochemical Cell	0- 21%	± 0.3% Volume	0.1%	<20 Seconds	
	H2S		0- 50 ppm	± 1.5% Range	0.1 ppm	<30 Seconds	
			0- 200 ppm	± 2.0% Range	1.0 ppm		
			0- 500 ppm	± 2.0% Range	1.0 ppm		
			0- 1,000 ppm	± 2.0% Range	1.0 ppm		
			0- 5,000 ppm	± 2.0% Range	1.0 ppm		
			0- 10,000 ppm	± 5.0% Range	2.0 ppm		
	CO		0- 40,000 ppm	± 5.0% Range	5.0 ppm	<30 Seconds	
			0- 500 ppm	± 2.0% Range	1.0 ppm		
			0- 1,000 ppm	± 2.0% Range	1.0 ppm		
	CO(H2)**			0- 1,000 ppm	± 1.0% Range	1.0 ppm	
H2			0- 1,000 ppm	± 2.5% Range	1.0 ppm	<90 Seconds	
NH3			0- 1,000 ppm	± 10.0% Range	1.0 ppm	<90 Seconds	
*Typical Accuracy	All accuracies quoted are after calibration plus accuracy of calibration gas used.						
**Hydrogen compensated CO2	Hydrogen cross gas effect on carbon monoxide approx. 1%. Do not use where hydrogen is in excess of 10,000 ppm.						
Pump							
Flow	700ml/min approx.						
Flow Fail Point	-3" to -11" Hg(-100 to -375 mbar) set by user						
Max Vacuum Resart	-11" Hg(-375 mbar) approx. with flow rate of approx. 200 ml/min						

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Facilities	
Temperature Measurement/Accuracy *	15 °F to 212 °F(-10 °C to 100 °C) with optional probe / ±1°F (0.5°C)
Flow (anemometer) accuracy *	0.7 to 40 m/s / ±1.0% full scale plus ±3.0% reading
Alarms/Targets	User defined alarm and target levels through GAMSoft
Communications	WIFI/Bluetooth to GAMSoft software and Affinity module
Relative Pressure Measurements/Accuracy *	±200" H2o / ±1.5"(±500 mbar / ±4 mbar to ±15 mbar max) (should be zeroed before reading)
Barometric pressure Measurement /Accuracy	±14.765" to 44" Hg/ ± 0.15" Hg (500 to 1500 mbar / ±5 mbar)
GPS Sensor	Location and Positioning
Memory	2,000 IDs, 4,000 Readings
Environment Conditions	
Ambient Range	21" to 25" Hg(700 to 1200 mbar) / 15° to 150°F(-100 C to +450 C)
Humidity	0- 95% non-condensing
IP rating	IP65
Physical	
Case Material	High impact ABS Composite with rubber over-moulding 10.2" x 6.7" x 2.6" (260 x 170 x 65mm)/ 4.2 lb (1.9 kg)
Display	HD 5" touchscreen LCD
Gas Sampling	Internal user changeable 2.0µm PTFE moisture and dust filter
Affinity Wireless Bluetooth Communicator	
Temperature Probe	-5° to 140°F(-20° to +60°C)
Anemometer	0.7 to 40 m/sec
Certification Rating	
UKEX / ATEX / IECEx	II 2 G Ex ib op is IIA T1 Gb (Ta = -10°C to +45°C)
SGS	CLASS 1, ZONE 1, AEx ib op is IIA T1 (Ta= -10°C to +45°C) (USA) CLASS 1, ZONE 1, EX ib op is IIA T1 (Ta= -10°C to +45°C) (Canada)

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