

R-Series

Landfill Gas Analyzer



Cat	Pres	LIVE
CH4	55.5	56.4
CO2	32.5	32.4
O2	1.0	3.6
H2	0.4	0.3
Opt1	55.5	56.4
Opt2	55.5	56.4





R-Series

Landfill Gas Analyzer

The **R-Series Landfill Gas Analyzer** in unison with the data collector makes landfill gas analysis as easy as possible for you. Methane, Carbon Dioxide, and Oxygen percentage levels are displayed immediately alongside PPM levels of Hydrogen Sulfide and Carbon Monoxide. Offers LEL and balance gas calculations.



The **R-Series Portable Gas Analyzer** is designed for monitoring and analyzing gas concentration of a sample line. The R-Series is designed for use on landfill sites. Operation is simple and the readings obtained are highly accurate. The instrument uses Ecotec's proprietary infra-red methane and carbon dioxide sensors and a combination of industry standard electrochemical gas sensor cells.

Applications

Landfill Gas Analysis > LFG System Tuning > Probe Monitoring

Key Benefits

SUITABLE SOLUTIONS

Datafield software package includes gas production reports (wellfield BTU report & monthly gas production report) complete reporting suites, priority maps and concentration maps.

REAL-TIME DATA

Automatically sends readings to DataField Online Service

Cost Effective

Save time with automatic downloads, no need to connect to a computer. Rechargeable Nickel Metal Hydride batteries giving up to eight hours of use between charges.

Specific Features

- Using optical infra-red analyzer, electrochemical cells, and balance calculation.
- Pressure measurements for atmospheric, static, and differential.
- Internal calculation to measure flow rate from differential pressure reading.
- Bluetooth dongle/External temperature probe.
- Built in sample pump.

Technical Specifications

Measurements

Sensor	Type	Range	Resolution	Accuracy
CH4	Infrared	0-70% 70-100%	0.1%	+/-1.0%vol +/-3.0%FS
CO2	Infrared	0-60% 60-100%	0.1%	+/-1.0%vol +/-3.0%FS
O2	Electrochemical	0-25%	0.1%	+/-0.5%
H2S	Electrochemical	0-5,000ppm	10ppm	+/-250ppm
CO	Electrochemical	0-2,000ppm	10ppm	+/-100ppm
LEL	Calculation	0-100%	0.1%	
Balance	Calculation	0-100%	0.1%	
Atmospheric		320 to 480 in Hg	1 in Hg	+/-2 in Hg
Static		-160 to +160 in H2O	1 in H2O	+/-0.4 in H2O
Differential		-10 to +10 in H2O	0.1 in H2O	+/-0.04 in H2O
Temperature		14°F to 212°F	0.5°F	+/-2°F

General

Ex. rating to	EEx ib IIB T1 Gb
Ambient temperature range	14°F to 104°F
Protection rating	IP65
Pump Rate	300 cc/min minimum
Dimensions	7.9" x 3.9" x 2.4"

Data

Data	Data storage via data collector
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Data Collector

DataField Mobile on the data collector is the software that communicates with the instrument and the GazoNav GPS device. Values from the instrument are joined with values from the GazoNav (for high accuracy GPS coordinate data) and the data is recorded within the mobile application. Alternatively, the Data Collector's location services can be used without the GazoNav, but it is difficult to predict the GPS accuracy. The Android operating system uses not only the GPS chip of the data collector but also enhances that data in conjunction with cellular providers towers and Wi-Fi spots to determine location. Since, many of our customers do not have a cellular SIM card installed and the equipment is typically used in rural locations without access to Wi-Fi, the GazoNav is used for best GPS results.

NSPS Compliance Map



Learn more about Ecotec's design, development and manufacturing of cutting-edge gas detectors and software by visiting ecotecco.com



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CERTIFICATIONS

