
ambisense

AUTONOMOUS GAS MONITORING TECHNOLOGY

Introductory Presentation: July 2014





AUTONOMOUS GAS MONITORING
TECHNOLOGY



AmbiSense Delivers

- ✓ **Continuous Monitoring** of BioGas – Perimeter Monitoring & Field Balancing
- ✓ **Optimised Efficiency** of BioGas Engines & Landfill Flares
- ✓ **Cost Effective** alternative to Expensive Equipment & Manual Field Balancing
- ✓ **Highly Accurate Data** + More Frequent Sampling
- ✓ **Web-enabled** Software Interface for Remote Data Access
- ✓ **Innovative Design** for Long-term Performance in Adverse Environments
- ✓ **Easily Installation** for pipes, gas wells, manifolds and ambient air



AUTONOMOUS GAS MONITORING TECHNOLOGY



Application Areas

- ✓ Landfill
- ✓ Shale Gas
- ✓ Coal Seam Mining
- ✓ Waste-water Treatment
- ✓ Anaerobic Digestion
- ✓ Contaminated Land
- ✓ Air Quality



MAXIMISE GAS YIELD

UNDERSTAND & PREDICT GAS BEHAVIOUR

DETECT & PREVENT GAS MIGRATION

REMOTE MONITORING OF UNMANNED LOCATIONS

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Analytical Capability*

- ✓ Methane (CH₄)
- ✓ Carbon Dioxide (CO₂)
- ✓ Carbon Monoxide (CO)
- ✓ Oxygen (O₂)
- ✓ Pressure (Gauge, Barometric)
- ✓ Temperature & Humidity
- ✓ Flow

* Other gases available upon request

Technology Features

- ✓ Customizable Sampling Frequency
- ✓ Low Detection Levels
- ✓ Solar Power
- ✓ 12 Months Internal Memory
- ✓ GSM for Remote Telemetry
- ✓ Remote Data Hosting
- ✓ Customizable Web Interface
- ✓ Multi-point manifold sampler

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Software Interface

- ✓ Secure customer login
- ✓ Integrated with Google Maps
- ✓ Customizable data-views
- ✓ Set Alert & Action Trigger Levels
- ✓ Automated event notification
- ✓ Interface with SCADA system
- ✓ Mobile, Tablet and PC Ready

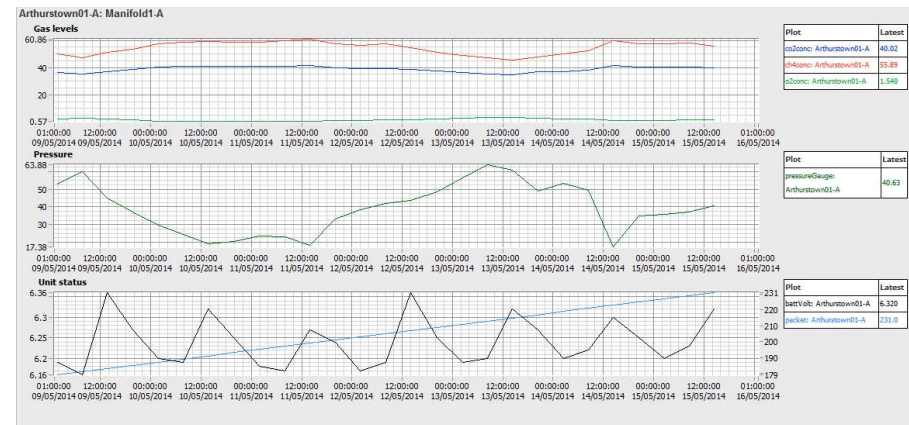
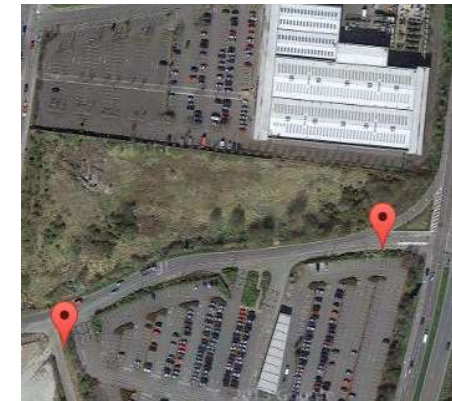
AMBISENSE
Autonomous Gas Monitoring Solutions

Welcome to our Remote Data Access Service

User Name

Password

Login





AUTONOMOUS GAS MONITORING TECHNOLOGY

Detailed Specification: July 2014

Methane (CH4)	IR Sensor	0 – 100 % v/v	0.01% v/v
Carbon Dioxide (CO2)	IR Sensor	0 – 100% v/v	0.01% v/v
Oxygen (O2)	EC Sensor	0 – 25% v/v	0.1%
Carbon Monoxide (CO)	EC Sensor	0 – 1000 ppm	0.1%
Pressure	Guage Barometric	+150mB 850 -1150hPa	
Flow	Integration with 3 rd party pitot tubes		
Communications	GSM for remote telemetry. 2.4 GHz Radio short wave		
Power	3 Months battery life (rechargeable) Indefinite with supplied solar charger		
Memory	Internal Memory (12 Months) non-volatile back-up		
Physical	360x220x200 mm 2.4 kg IP68 Rated Enclosure		
Data Hosting	http://data.Ambisense.net		

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