

# Methane Analyser System

## Designed for Landfill Gas, Coal Seam Methane and Biogas Power Generation

Ampcontrol Instruments 'Methane Analyser System' is designed to support a growing trend towards the use of clean, renewable energies. With greenhouse gas emissions rising and non-renewable energy sources diminishing, landfill waste gas, coal seam methane and biogas are becoming increasingly popular as major sources of clean, renewable energy.

The 'Methane Analyser System' monitors the flow of methane and enables accurate on-line real-time monitoring of the methane concentration within the overall gas mix. The System monitors the concentration of methane being fed to engine modules installed in power stations supplied by landfill waste gas, coal seam methane or biogas.

The System is an economical, reliable and accurate method of monitoring the amount of methane being utilised for power generation which enables companies to quantify the carbon credits they are due.

The central component of the system is Ampcontrol's IEC certified Methane Analyser. Suitable for use in hazardous areas, the analyser is highly accurate, stable and is not cross-sensitive to other Hydrocarbons (typically present in a landfill gas or coal seam gas stream). This is essential to the measurement of greenhouse gas abatement which is based on output levels.

A number of Ampcontrol 'Methane Analyser Systems' have already been installed in Australian coal mines to monitor the coal seam methane being captured and used for power generation as well as in various landfill gas fired power stations.

## Key Component

### Austech Instruments Methane Analyser

The Austech Methane Analyser has been custom designed to monitor the concentration of Methane being fed to engine modules installed in power stations supplied by Landfill Waste Gas, Coal Seam Methane or Biogas. The Analyser is highly accurate, stable and is not cross-sensitive to other Hydrocarbons.

The Australian Certified Ex d Methane Analyser can be positioned in the hazardous area close to the fuel rail to shorten the sample line minimising the response time of the measurement.

## Features

- + Not cross sensitive to other Hydrocarbon gases
- + Australian certified for Zone 1 Hazardous Areas
- + Fast response
- + Thermal trip device activated by heat to permanently cut off the gas supply
- + Reverse gas flow prevention
- + Process in-line fittings
- + High level of accuracy
- + LCD backlit display
- + Non-intrusive calibration (cover removal not required)
- + 4-20mA output
- + Optional volt free relay outputs
- + Programmable set points for 'Warn' and 'Alarm' levels
- + User selectable directions for 'Warn' and 'Alarm' - rising or falling
- + Corrosion resistant materials in gas path
- + Long service life even in harsh environments
- + Ease of maintenance



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## Multi Gas Analyser System

Analyser 2 and 3 are optional

