



Model 9000MGA Dual Infra-Red Multi-Gas Analyser

- Innovative dual infra-red cell design
- Available with paramagnetic oxygen detector
- Utilises gas correlation rotary filter
- Separate inlets for true “3 in 1” operation

Overview

Designed as a true “three-in-one” analyser, the Model 9000MGA has separate inlets for each gas stream. This enables you to use the same analyser for up to three different applications. It can also be used to measure the concentration of three gases in a single sample stream.

Non-dispersive infra-red absorption is a proven measurement technique for the quantitative determination of gases possessing heteroatomic molecules. This range of analysers also utilises a gas correlation rotary filter system for maximum sensitivity.

The filter wheel is filled with the gas to be measured to minimise any cross interference effects. This is particularly effective with weak absorbing gases such as CO where the strong effects of CO₂ cross interference can be eliminated.

Each Model 9000MGA is built with an optimised cell length appropriate to the gas species and measurement range selected on ordering.

Operation

The three display front panel provides easy configuration and control of each gas channel.

A continuous nitrogen purge is provided to the measurement cell to maximise stability and reduce noise.

With fast response, high accuracy and repeatability and continuous measurement, the Model 9000MGA is ideal for a wide range of applications from landfill gas monitoring to combustion research.

The Model 9000MGA has a user friendly interface with status pages for simple diagnostics. With automatic calibration and remote control capability, it is ideal for applications where low maintenance is provided.

Options

The 9000MGA is available in either dual or triple gas configurations. Ranges available are 0-100ppm up to 0-100% concentration.

Specification

Measurement technique	Dual GFC NDIR plus paramagnetic
Measuring range	Gas dependent
Response	Gas and range dependant
Bypass flow sensitivity	Less than 1% from 1 to 2L/min
Accuracy and repeatability	Better than 0.5% of range
Linearity	Better than 0.5% of range
Noise	Gas and range dependant
Drift	Zero and span less than 1% of range in 1 hour
Input	Separate inlets for sample and span for each gas channel Common zero and bypass inlet
Power	Switchable 110/230Vac Maximum 500VA during warm up
Display	Three 240x64 pixel displays
Concentration outputs	0-10Vdc and 4-20mA analogue
Range output	1-8Vdc
Remote control	AK protocol via RS232 port
Sample condition	Sample must not exceed 40DegC with a dew point below ambient
Dimensions	19" rack mounted 3U high 19" x 590mm x 133.5mm
Services required	50ml/min N ₂ continuous purge
Options	Gas combinations available; CO and CO ₂ CO and NO CO ₂ and CH ₄ all available with additional channel for oxygen