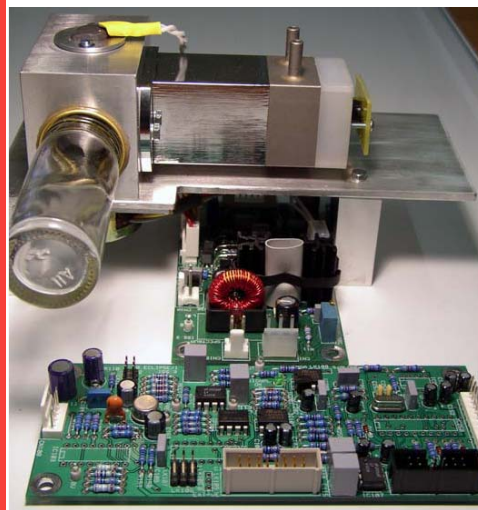




Spectrum OEM Infrared Optical Bench

Pure gas analysis
 Waste incineration
 Glass production
 Refinery processes
 Appliance testing and compliance
 Solvent incineration
 Power generation
 Paper manufacturing
 Cement production
 Food processing
 Pharmaceutical
 Natural gas
 Crematoria
 Combustion control
 Land fill gases
 Clean Development
 Mechanism (CDM)
 Wood burning boilers
 Particulate emissions

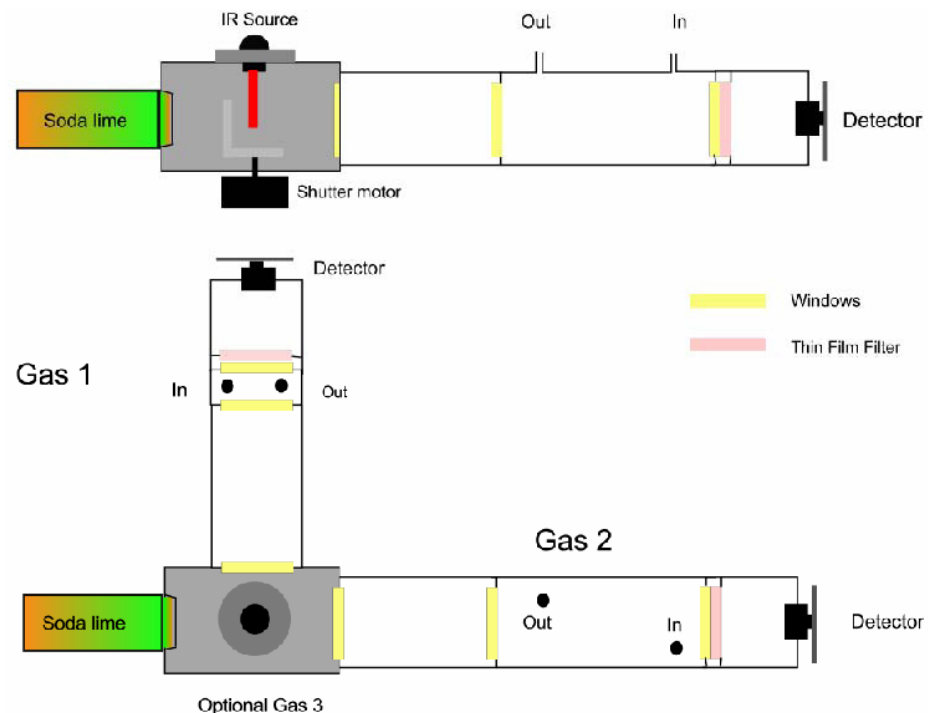


- Specifically designed to meet OEM demand
- Up to 3 gases measured simultaneously
- Compact design
- Largest range of gases unmatched by other OEM's
- Highly reliable and proven design
- Powered by a single 24V dc supply
- External or on board calibration controls
- Integration with microprocessor via I2C bus

INFRARED OEM OPTICAL BENCH

Spectrum is a self contained analyser bench for OEM applications. It can be provided in a number of variants to cover a wide range of applications and gases. The single beam infrared technology gives high selectivity, excellent sensitivity and repeatability – versatility unmatched by other OEM units.

The on-board electronics handle most of the work, leaving final calibration and display options open for ease of integration. Optional linerisation of the signal is available, together with external control of zero and span functions. Integration with processors is through the optional I2C bus connection,



Experts in Gas Analysis



TECHNICAL SPECIFICATION

Principle:	NDIR with solid state detector
Resolution:	0.5% fsd
Repeatability:	+/- 1.0% fsd
Noise:	0.5% fsd
Zero Stability:	2.0% fsd over 24 hours
Span Stability:	0.5% fsd over 24 hours
Temperature Effect:	Zero: +/- 0.25% per 1C
Temperature Effect:	Span: +/- 0.25% per 1C
Response Time:	Typically 4 secs to T90 Dependant on cell size
Flow Rate:	Typically 0.2 to 1 litre per minute
Output:	1V, 2V non linear
Connections:	2 pin power connection for 24V dc (+/- 10%) 14 pin DIL header for all other Connections
Power Consumption:	750mA maximum

OPTIONS

Lineariser:	Provides a linearised voltage or mA signal
I2C bus:	Allows connection to processor for software Control of coarse zero
Single Gas	
Dual Gas and	
Triple Gas variants:	Allows up to 3 gases for independent Measurements

GASES AND RANGES

Up to 25 gases, with ranges from 0-1000ppm to 0-100% available.

Please note

Some gases, for example Ammonia, requires corrosive gas connections

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