



Nebula COmbi₂

Multi-Gas Analyser for all Boiler Types



The System

The Nebula COmbi₂ is the gas analysis system of choice for gas, oil, wood, solid fuel and domestic gas boilers.

The system offers flexible measurement ranges of Carbon Monoxide (CO) and Carbon Dioxide (CO₂) in order to be adaptable to regulation changes.

In addition to the gas measurements the COmbi₂ also offers gas conditioning in one compact enclosure.

Main Features

- Multi range gas sensing CO/CO₂
- Sample conditioning including:
 - Peltier Coolers
 - Permeation Dryers
 - Membrane Filters
 - Moisture Sensors

- 4-20mA & RS232 port
- Relays
- Optional sensing for:
 - Methane (CH₄), Oxygen (O₂) and
 - Nitric Oxide (NO)

Sample Conditioning

- Peltier Coolers
- Compressor Coolers
- Permeation Dryers
- Particulate Filters
- Membrane Filters
- Moisture Sensors
- Custom Configurations

Minimum Gas Detection

CO₂ & CO

0.1ppm Dependent upon
Technology used

CH₄, NO₂, O₂

1.0ppm

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Please see over page for more information

General Specifications

Criteria	General Specification
Pump Flow Rate:	Typically: 0.2 to 1.2 litres per minute
Flow Meter:	Electric or manual with control
Electrical Connections:	Round 8 pin DIN for analogues, RS232 data port, relay alarm contacts
Gas Connections:	M6 compression fittings or user specified
Operating Conditions:	5-40°C ambient, 0-95% RH
Gas Conditioning:	0-50°C non-condensing at analyser
Power Requirements:	Nominal 90-240VAC. 50/60Hz max 120VA
Dimensions:	Analyser Only: H133mm x W483mm x D500mm – 3U Complete with conditioning: high 1360mm (h) x 600mm (w) x 800mm (d) - 27U
Weight:	Analyser Only: 12-15kg Dependent upon configuration. Complete with conditioning: Approx 70kg

Criteria	Gas Filter Correlation (GC)	Single Beam (SB)	Oxygen Paramagnetic (PM)	Oxygen Chemical Cell (ECC)
Gases Measured:	CO ₂ , CO, CH ₄ , NO	CO ₂ , CO, CH ₄	O ₂	O ₂ +
Technology:	NDIR gas filled wheel	NDIR single wavelength absorption meter	Paramagnetic cell	Chemical cell
Ranges:	ppm to 100% for gases	ppm to 100% for gases	1-100% for oxygen	ppm to 10% for gases
Resolution:	0.1% of scale	0.5% of scale	0.1% of scale	0.1% of scale
Detection Limit:	0.1% of scale	0.5% of scale	0.01% of O ₂	1% of scale
Accuracy:	1% of reading	1% of scale	0.1% O ₂	1% of scale
Noise:	<0.1% of scale	<0.5% of scale	<0.1% O ₂	0.1% of scale
Zero Stability:	1% per week	1% per 24 hours	Absolute Zero	Absolute Zero
Span Stability:	0.5% per week	1% per week	0.1% per week	0.5% per week
Temp. Effect on Zero:	± 0.1% per °C	± 0.25% per °C	± 0.1% per °C	± 0.1% per °C
Temp. Effect on Span	± 0.2% per °C	± 0.25% per °C	± 0.1% per °C	± 0.1% per °C
Response Time - Dependent on gas cell length:	T90 of 4 seconds	T90 of 4 seconds	T90 of 4 seconds	T90 of 20 seconds



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