

SERVOMEX 5200 MULTI PURPOSE PORTABLE BENCHTOP GAS ANALYSER

For analysing the composition of common gas mixtures in laboratories and light industrial applications

- Non-depleting paramagnetic measurement technology ensures the unit is always ready for use
- Accurate, reliable and component specific, giving confidence that observed values are credible and not due to background interference
- Customer pre-tested software offers ease of use, simple calibration and advanced features
- Innovative construction gives a robust unit with a space saving footprint
- Vehicle power (12/24V) option enables mobile use



SPECIFICATION

GASES MEASURED: O₂ (CO₂, CO and CH₄ to follow)

TECHNOLOGY Servomex paramagnetic cell

PERFORMANCE

Sample: Clean, dry, non-flammable and non-toxic gases

Range: 00.0 - 100.0% O₂

Accuracy: ±0.2% O₂ in general use

±0.1% O₂ when used in a stable environment eg. laboratory

Response time (T₉₀): Approximately 10 seconds with an inlet pressure of 10psig (70kPa)

Display: White backlit LCD

Alarms: Two user configurable concentration alarms indicated by an LED, icon display and audible sounder

Instrument fault alarm indicated by an LED, icon display and audible sounder

Outputs / datalogging: RS 232 serial port configurable to continuous output or logged data download of 200 points

Connects to standard PC software, enabling capture of data for use in spread sheets, etc.

PHYSICAL

Dimensions: W 150mm (6.0") x D 260mm (10.5") x H 300mm (12.0")

Weight: From 2.25kgs (5.0lbs)

Inlet pressure: 7kPa (minimum) to 70kPa (maximum) (1psig to 10psig)

Flow rate: To maximise measurement stability, units are supplied with an automatic flow control device (AFCD). Over the specified inlet pressure range this controls sample flow rate to approximately 1.5 to 6 litres (0.05 to 0.2 cubic feet) per minute

Sample filter: Replaceable 0.6µm glass fibre particulate filter

Sample inlet connection: 5mm OD stub with quickconnect barb fitting for 6.3mm (1/4") ID tube or adaptor to 1/8" NPT fitting option

Sample outlet connection: 5mm OD stub (sample and bypass)

Operating temperature: -10°C to +50°C (+14°F to +122°F)

Power supply: 100-240V AC

OPTIONS

Vehicle power adaptor:

Allows the unit to run / recharge from 12/24V DC vehicle socket.

Additional Quickconnect Fittings:

Simplifies connection of zero and span gases.

Adaptor to 1/8" NPT allows connection to hard pipes

Extra Barb fittings: x1 x2 x3

1/8" NPT adaptor: x1 x2 x3

Two Years Recommended Spares:

Replacement filters (5) and AFCD 'O'-ring

APPLICATION EXAMPLES

- Physiology studies
- Universities
- Douglas bag analysis
- Laboratory reactors
- Respiration research
- Permeation studies
- Fermentation
- Diving gases
- Medical gas verification
- Bottled gas QC

The Servomex 5200 Multi Purpose gas analyser has been specifically designed to meet the demanding needs of field and laboratory analysts, light industrial users and others who require fast, accurate and reliable analysis of common gas mixtures.

Building upon over 50 years experience, the 5200 Multi Purpose uses a non-depleting, component specific measurement technique, avoiding the problems associated with electrochemical or other less robust methods of analysis. Coupled with excellent measurement performance are features to make use extremely easy, such as an automatic flow control device, protective replaceable filter and a user interface developed and tested with customers.

The 5200 Multi Purpose replaces the well established Servomex 244, 571, 572 and 575. Where there is no risk of an explosive atmosphere it may also be used to replace the Model 570.

APPROVALS

ORSAT validated to meet USFDA performance requirements for verifying medical oxygen USP and nitrogen NF.

CE marked and in compliance with the EEC EMC Directive.

UL, TÜV, FCC and PSE approved power supply.

www.servomex.com

SERVOMEX COMPANIES, AGENTS AND REPRESENTATIVES ARE LOCATED THROUGHOUT THE WORLD. YOUR NEAREST CONTACT IS:

Visit www.servomex.com for technical data sheets, application and technology information for all Servomex analysers.

Servomex has a policy of constant product improvement and therefore reserves the right to change specifications without notice.



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