SERVOMEX

SERVOFLEX
MiniMP (5200)

HIGH PERFORMANCE CARBON DIOXIDE AND OXYGEN MONITORING IN THE ONLY FULLY PORTABLE FORMAT CURRENTLY AVAILABLE FOR CEM TESTING AND VERIFICATION

SERVOFLEX MiniMP (5200)

The MiniMP is a high performance CO_2 and O_2 gas analyzer you can really depend on. With easy and intuitive operation and single or dual CO_2/O_2 measurement functions, MiniMP is ideal for a wide range of measurement applications.

A small sized, big monitoring capability device, the MiniMP provides flexible use and full portability. In fact, it's the only truly portable unit with MCERTs approval, while Servomex's Paramagnetic oxygen sensing technology meets US and European Pharmacopeia standards for the assay of medical oxygen. With a size that belies its strength, the MiniMP delivers reliable, leading-edge performance and accuracy you can rely on in an affordable, low-maintenance and easy-to-use unit.

FLEXIBLE

- Accurate measurement of O_2 and CO_2 levels
- A range of sampling and power options
- Ideal for laboratory, healthcare, fermentation, combustion analysis, CEMS testing, light industrial use and medical gas transfill

EASY TO USE

- Only device in its class that offers true portability.
- Quick start up and use
- Small footprint that integrates easily into any location
- Mains or battery power option

LOW COST OF OWNERSHIP

- Non-depleting technologies maximize availability and reduce maintenance/running costs
- Paramagnetic O_2 and Infrared CO_2 sensing technologies require minimal ongoing calibration

UNRIVALLED PERFORMANCE

- Patented Paramagnetic and Infrared technologies for high sensitivity monitoring and reliability
- Precision single or dual measurement operation
- Ergonomic, space-saving footprint
- Manufactured by Servomex - over 60 years' experience innovating and pioneering gas analysis and thousands of units used in the field every year

BENCHMARK COMPLIANCE

- Meets USFDA requirements for verification of medical O_2 USP and N_2 NF
- European Pharmacopeia compliant (O_2)
- TÜV certified EN15267-3 (MCERTS v3.3, Annex F) for O_2 analysis
- Source Reference Method (O_2) to EN14789, verification of AMS to EN14181.

Learn more about the SERVOFLEX MiniMP (5200)
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ANALYZERS
HIGH-PERFORMANCE GAS ANALYSIS

RELIABILITY YOU CAN DEPEND ON

When you work in light industrial or laboratory applications, you need equipment you can depend on and help you get the job done as efficiently as possible.

In certain applications you'll need equipment that's certified to the highest level. No matter what your application monitoring requirement, you'll want a device that offers long battery runtime, low operational costs, simplified ongoing maintenance and ease of use. And we don't believe you should have to compromize.

A NO COMPROMIZE SOLUTION

The MiniMP combines ease of use and simple device care with high powered CO_2 and O_2 monitoring capabilities (EN15267-3 MCERTs approved), providing the ideal solution for a wide range of applications.

With the full capability to meet the demands of sensitive, accurate testing, in an easy-to-use interface that includes a single or dual sample format, the MiniMP has long-life operation powered by a durable battery system.

TRUE PORTABILITY

The MiniMP is the only device to offer true battery-powered portability that meets MCERTS certification. This, combined with gas-specific accuracy, ensures the MiniMP is ready for a range of monitoring needs from the verification of medical oxygen to CEMS testing.

It's always ready to work when you are. When you want sensitive, accurate detection, low maintenance requirements and the flexibility to do the job the way you want it done, the MiniMP provides a small, easy to use and cost-effective solution that delivers on all levels.

ALTERNATIVE PRODUCTS

The SERVOFLEX portable product range features a number of options designed to meet your application needs.

MiniHD (5200)

Designed to withstand the elements, this CO_2, CO or O_2 single-measurement analysis unit has an IP65 rating, protective, durable overmoulding and a choice of Paramagnetic or IR sensing for completely reliable results.

Micro i.s. (5100 i.s.)

Designed to monitor CO or O_2 in the harshest, most hazardous locations, the single-measurement Micro i.s. is ATEX certified, Intrinsically Safe (i.s.) and suited to all hazard rated locations, including Zone 0.

KEY APPLICATIONS

- Laboratories and research
- Air separation and gas bottling plants
- Medical gas storage facilities
- Physiology and respiration studies
- Diving centers
- Transfilling
- Fermentation
- Combustion analysis

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TECHNOLOGIES

ZIRCONIA   GAS FILTER CORRELATION   CALORIMETRY   THERMAL CONDUCTIVITY   PARAMAGNETIC   INFRARED

OPTIONS	DESCRIPTION	SPECIFICATION
Internal pump	Integrated internal pump with a timer.	700ml / min
Analog output	4-20mA / 0-20mA	1 measurement per output
Rechargeable batteries	Advanced Lithium Ion (Li-Ion)	8-36 hours runtime, depending on use
Vehicle power adapter	Run and recharge cradle	Powered by 12/24V DC vehicle socket

ACCESSORIES	DESCRIPTION	SPECIFICATION
Printer	Compact and simple to use	Mains powered or rechargeable, Pack of 5 additional printer paper rolls
QuickConnect barb fitting	Simplify connection of gases with QuickConnect	Easy connection of zero and span gas
¼" NPT adaptor	Ideal for QuickConnect hard pipe use	Easy connection to hard pipe work
2 years spares pack	Two years hassle-free operation	5 x filters, 1 filter O-ring
Sample conditioning panel	Ideal for flue gas analysis and wet and dirty sampling	Works with the internal pump and ensures accurate readings
Flow meters	Delivers flexible sampling capabilities	1-10l/min (unregulated). 100-1,000ml/min (with regulator)
Sampling probes	Two options for pinpoint sampling	25cm with protective tip (180°C / 356°F max temp). 100cm untipped
Carry case	Robust and life-proof case	Pre-shaped foam sections that allow further customisations

MONITORING PERFORMANCE

Sensor	O_2	O_2	O_2	CO_2
Technology	Paramagnetic	–	–	Infrared
Variant	Standard (1dp)	Industrial (1dp)	High accuracy (2dp)	All variants (1dp)
Full scale and Min. output	0-100% 0-10% (min.)	0-100% 0-1% (min.)	0-100% 0-1% (min.)	0-10%, 25%, 50%, 100%, 0-10% FSR
Cell construction	Polymer (PPS)	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
Accuracy (intrinsic error)	±0.2% O_2	±0.1% O_2	±0.05% O_2	±2% FSR
Zero drift/week	±0.4% O_2	±0.2% O_2	±0.2% O_2	±4% FSR
T_{90} in secs.	<10	<15	<15	<10
Operating Temp.	-10 to +50°C (14 to 122°F)	-10 to +50°C (14 to 122°F)	-10 to +50°C (14 to 122°F)	5 to +45°C (41 to +113°F)

Please note: *Allow 1 hour warm up to meet performance specification.*

TUNABLE DIODE LASER   FLAME IONISATION DETECTOR   GAS CHROMATOGRAPHY   PLASMA   LASER MOISTURE   COULOMETRIC   SPECTROSCOPIC

SAMPLE FOR MEASUREMENTS

Sample gas	Clean, dry, non-flammable and non-toxic gases only. Though samples containing >5% CO_2 are toxic, they can be analyzed if the suitable precautions are taken
Flow Control	AFCD maximizes measurement stability for unpumped units over specified inlet pressure range – 1.5 - 6 ltr (0.05 – 0.2 ft³) /min
Sample inlet connection	QuickConnect barb fitting – 5mm OD stub for 6.3mm (1/4") ID tube or adaptor to 1/8" NPT fitting option
Sample outlet connection	5mm OD stub (sample and bypass)
Inlet pressure	With optional internal pump – 7kPa (1psig) to 3.5kPa (0.5psig) Without pump 7kPa (1psig) to 70kPa (10psig)

DEVICE SPECIFICATION

Size:

- 150mm (6.0") Width x 300mm (12.0") High x 260mm (10.5") Deep
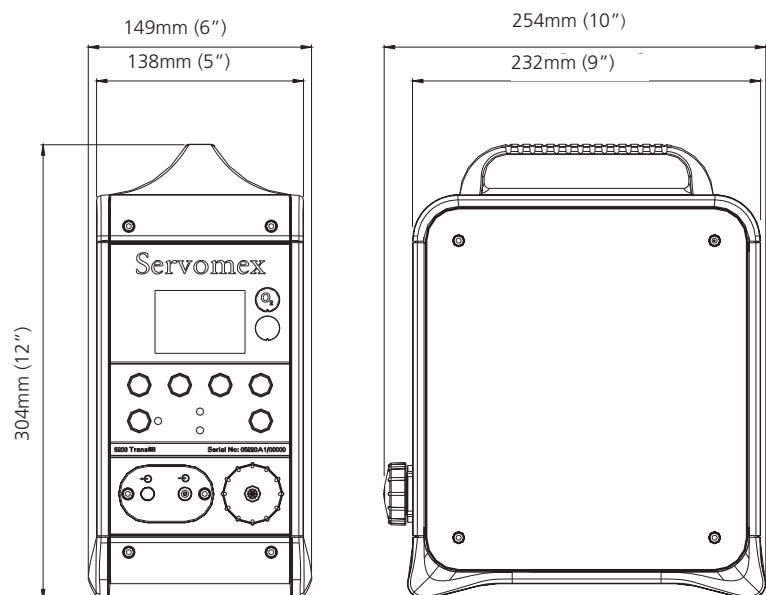
Weight:

- 2.6kgs (5.7lbs) – 3.9kgs (8.6lbs) depending on config.

Certifications:

- Meets USFDA performance requirements for verifying medical O_2 use

- CE in accordance with EEC EMC and WEEE Directives

- UL/CE approved 100-240V/43=70Hz AC power supply

- TÜV and MCERTs (Annex F, Transportable Systems) to EN15267-3 (Certification of Automated Measuring Systems) using Industrial or High accuracy O_2 variants and mA output

These analyzers are not intended for any form of use on humans and are not medical devices as described in the Medical Devices Directive 93/42EEC.

DEVICE SCHEMATIC

149mm (6")
138mm (5")
304mm (12")
254mm (10")
232mm (9")

Servomex
5200 TransMI   Serial No: 05000A1/00000

Please note: *This document was updated in August 2014. While every effort has been made to ensure accuracy, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards and guidelines. This document is not intended to form the basis of a contract.*

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