

SERVOMEX

2022 PRODUCT GUIDE

OUR INDUSTRY-LEADING GAS ANALYZERS AND SYSTEMS, MATCHED TO YOUR REQUIREMENTS

PRODUCTS

SYSTEMS

SERVICE



SERVOTOUGH
HAZARDOUS AREA



SERVOPRO
SAFE AREA



SERVOFLEX
PORTABLES



SERVOMEX.COM

SERVOMEX
a spectris company

70
YEARS

> GAS MEASUREMENT GUIDE

SERVOTOUGH	NH ₃	Ar	CO	CO ₂	He	C1-C6	NMHC	H ₂	HCl	H ₂ S	CH ₄	NO	NO _x	NO ₂	N ₂
H2scan								%							
Oxy 1800															
Oxy 1900															
OxyExact 2200															
SpectraScan 2400			%CV	%CV		%CV				%CV					
SpectraExact 2500	%		%ppm	%ppm		%		%ppm		%	%ppm				
FluegasExact 2700			ppm												
Laser 3 Plus Environmental	ppm														
Laser 3 Plus Combustion			ppm								%				
Laser 3 Plus Process															

SERVOPRO	NH ₃	Ar	CO	CO ₂	He	C1-C6	NMHC	H ₂	HCl	H ₂ S	CH ₄	NO	NO _x	NO ₂	N ₂
AquaXact 1688															
AquaXact 1688 Controller															
MonoExact DF150E															
MonoExact DF310E															
4900 Multigas			%ppm	%							ppm	ppm			
MultiExact 4100			%ppm	%ppm							ppm				
MultiExact 4200			ppm	ppm							ppm				
NanoTrace FTIR			ppm	ppm/b/t							ppm/b				
Chroma		ppm/b	ppm/b	ppm/b	ppm/b		ppm	ppm/b			ppm/b			%ppm/b	
NanoChrome		ppb/t	ppb/t	ppb/t			ppb/t	ppb/t			ppb/t				ppb/t
DF-500 Range															
DF-700 Range															
NanoChrome ULTRA		ppb/t	ppb/t	ppb/t			ppb/t	ppb/t			ppb/t				ppb/t
DF-560E NanoTrace ULTRA															
DF-750 NanoTrace ULTRA															
DF-760E NanoTrace ULTRA															
Plasma															ppm
FID															
NO _x												ppm	ppm	ppm	
HFID							ppm				ppm				

GAS DETECTION	NH ₃	Ar	CO	CO ₂	He	C1-C6	NMHC	H ₂	HCl	H ₂ S	CH ₄	NO	NO _x	NO ₂	N ₂
OxyDetect															

SERVOFLEX	NH ₃	Ar	CO	CO ₂	He	C1-C6	NMHC	H ₂	HCl	H ₂ S	CH ₄	NO	NO _x	NO ₂	N ₂
Micro i.s. 5100															
MiniMP 5200				%											
MiniFoodPack 5200				%											
MiniHD 5200			%	%											

MEASUREMENT TYPE: PERCENT/PARTS PER MILLION/PER BILLION/PER TRILLION/BY VOLUME/DEW POINT

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N ₂ O	O ₂	C ₃ H ₆	THC	H ₂ O	SO ₂	KEY APPLICATIONS HAZARDOUS AREA	PAGE
						■ Refinery ■ Petrochemical ■ Manufacturing ■ Industrial gas supply	5
	%					■ Waste water treatment ■ Food storage ■ Marine inerting applications ■ Inert blanketing	5
	%					■ Process control ■ Flare stack analysis ■ Vapor recovery ■ Safety-critical oxidation	5
	%					■ Oxidation control reactions ■ EO, PTA and EDC manufacturing ■ Catalyst regeneration ■ Solvent recovery	6
						■ BTU/Wobbe content measurement ■ Gas turbine, engines, fuel cells ■ Flare stack monitoring	6
%ppm		%	%	%		■ Water in EDC/solvents ■ Ethylene production ■ TDI production ■ Chlorine production	6
	%					■ Process heaters ■ Utility boilers ■ Thermal crackers ■ Crematoria and incinerators	7
						■ Process heaters ■ Incinerators ■ Power stations ■ Furnaces ■ Thermal oxidizers	8
	%					■ Process heaters ■ Incinerators ■ Power stations ■ Furnaces ■ ESP protection ■ Thermal oxidizers	8
	%					■ Oxidation control ■ Inerting ■ Safety monitoring ■ Flare gas monitoring ■ Combustion control (<500°C) ■ Coal to chemical	8

N ₂ O	O ₂	C ₃ H ₆	THC	H ₂ O	SO ₂	KEY APPLICATIONS SAFE AREA	PAGE
				ppmvdp		■ Glove boxes ■ Solder reflow ovens ■ Compressed air generation ■ Ethylene production	9
				ppmvdp		■ Glove boxes ■ Air separation units ■ Instrument air units ■ Refining gases	9
	ppm/b					■ Glove boxes ■ Heat treating ■ Solder reflow ovens ■ Industrial gas production	9
	%ppm			ppm		■ Air separation units ■ Medical/industrial gases ■ Specialty gas blending	10
ppm	%				ppm	■ Utility boilers ■ Clinical waste incinerators ■ Chemical incinerators ■ Mobile labs	10
ppm	%ppm			ppm		■ Product purity on ASU ■ Validation of medical O ₂ , N ₂ and air ■ Process control on ASU ■ Monitor trace CO ₂ on scrubbed air inlet to air separation process	10
ppm	%ppm					■ Hydrogen production ■ HyCO plants ■ Syngas production	11
						■ In-line process monitoring ■ Batch sampling ■ Gas purity analysis ■ Gas certification analysis ■ Leak detection	11
	ppm/b					■ Medical gas production ■ ASU ■ Cryogenic truck loading station ■ High purity gas production	11
	ppb/t					■ Semiconductor production ■ Quality control measurements ■ Stationary analytical systems UHP gas production	12
	ppm/b/t					■ Continuous quality control monitoring ■ Post purifier quality certification ■ Leak detection for electronics grade gases	12
	ppm/b/t			ppm/b/t		■ Continuous quality control monitoring ■ Bulk gas cylinder quality control ■ Trace moisture analysis	12
	ppb/t					■ Semiconductor production – quality control measurements – stationary analytical systems ■ UHP gas production	13
	ppm/b/t					■ Continuous quality control monitoring ■ Inert gases control checks ■ Post-purifier quality certification ■ Leak detection	13
				ppm/b/t		■ Continuous quality control of bulk UHP gases for semiconductor fabs	13
	ppm/b/t			ppm/b/t		■ Monitoring O ₂ and H ₂ O as comtaminants in UHP bulk gases used in semiconductor applications	14
						■ Argon production ■ Truck loading ■ Pure gas bottling ■ Specialty gas laboratories	14
			ppm			■ Cryogenic air separation ■ Process control ■ Food gas manufacture ■ Product validation	14
						■ Scrubber efficiency ■ Turbine/generator feedback control ■ SCR/SNCR feedback control ■ CEMS	15
			ppm			■ Compliance monitoring and testing ■ VOC abatement ■ Scrubber efficiency ■ CEMS	15

N ₂ O	O ₂	C ₃ H ₆	THC	H ₂ O	SO ₂	KEY APPLICATIONS GAS DETECTION	PAGE
	%					■ Pharmaceutical plants ■ Helium production and storage ■ Semiconductor facilities ■ Laboratories and universities	15

N ₂ O	O ₂	C ₃ H ₆	THC	H ₂ O	SO ₂	KEY APPLICATIONS PORTABLES	PAGE
	%					■ Process monitoring ■ Inerting applications ■ Controlled atmosphere ■ Hazardous area combustion optimization	16
	%					■ Laboratories and research ■ Air separation and gas bottling plants ■ Transfilling ■ Combustion analysis ■ Medical gas verification	16
	%					■ EMAP fresh consumable produce testing ■ Laboratory and research ■ MAP quality testing for food, packaged pharmaceuticals and beverage products	17
	%					■ Physiology studies ■ Universities ■ Combustion optimization	17

MEASUREMENT TYPE: PERCENT/PARTS PER MILLION/PER BILLION/PER TRILLION/BY VOLUME/DEW POINT

> WELCOME TO SERVOMEX

THE WORLD'S LEADING MANUFACTURER OF GAS ANALYZERS AND GAS ANALYSIS SYSTEMS

Developed and manufactured in our UK and Americas Technical Centers, Servomex analyzers are hand-built to precise requirements. This ensures every product we make provides performance optimized to the needs of each customer process.

Built around the stable, accurate and reliable gas measurements provided by our world-leading Hummingbird sensing technologies, our analyzers incorporate the latest advances in hardware design and software control into resilient designs optimized for hazardous or safe area use.

Once manufactured, our analyzers can integrate into existing systems or be designed into a complete system manufactured to equally high standards in our global network of Systems integration facilities.

We build every analyzer to deliver a long lifetime of performance. This ethos is maximized through our global Service offering, which provides a complete support service for your analyzer, from commissioning to regular maintenance.



Andy Cowan,
President of Servomex

The world's largest and fastest-growing group of companies are aligning with the Business Ambition for 1.5°C: helping to halve global emissions by 2030. As a member of the Spectris Group, Servomex is a proud participant in this campaign, and we have committed to science-based emissions reduction targets across the entire value chain.

CARBON NET ZERO

Find out more: servomex.com/sustainability-at-servomex

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We regularly post on Twitter, LinkedIn and Facebook. Follow us for the latest news about our expert gas analysis solutions. Be the first to find out about our product releases, exhibition appearances, and career opportunities around the globe.



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H2scan

HAZARDOUS AREA

EXPLOSION-PROOF IN-LINE HYDROGEN PROCESS ANALYZER, USING A SOLID-STATE, NON-CONSUMABLE SENSOR CONFIGURED TO OPERATE IN PROCESS GAS STREAMS

The H2scan hydrogen process analyzer features thin film technology that provides a direct hydrogen measurement that is not cross-sensitive to other gases.



FEATURES AND BENEFITS

- UL Class 1, Division 1, Groups B, C, D. ATEX and CSA certifications
- Easily configurable alongside SERVOTOUGH SpectraScan 2400
- Simple system integration

APPLICATIONS

- Refinery
- Petrochemical
- Manufacturing
- Industrial gas supply

GAS	MEASURES	APPLICATION
HYDROGEN	PERCENT	PROCESS CONTROL
		QUALITY

SERVOTOUGH Oxy 1800

SAFE AREA

ACCURATE AND STABLE SAFE AREA O₂ ANALYZER

Designed to reliably measure non-flammable samples up to 100% O₂ in many industrial applications, the Oxy 1800 is a stable, accurate and highly specific O₂ analyzer for safe area use.



FEATURES AND BENEFITS

- Internal/external use (IP66/NEMA 4X rated)
- Special version for solvent-bearing samples
- A range of alarm outputs aids integration into control systems
- Easy to set-up, install and operate

APPLICATIONS

- Waste water treatment
- Food storage
- Marine inerting applications
- Inert blanketing

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
		SAFETY

SENSING TECHNOLOGY

PARAMAGNETIC

SERVOTOUGH Oxy 1900

HAZARDOUS AREA

AWARD-WINNING PARAMAGNETIC DIGITAL O₂ ANALYZER DESIGNED FOR HAZARDOUS AREA USE

Offering industry-standard features alongside revolutionary, value-added options, the Oxy 1900 O₂ gas analyzer sets new standards of flexibility, measurement stability and reliability from a single, cost-effective unit.



FEATURES AND BENEFITS

- Safe Area to Zone 1/Division 1 hazard-rated locations
- Heated sample gas compartment provides improved measurement performance with optional sample heater for simplified sample conditioning system design
- Unique Servomex Flowcube flow sensor technology for improved safety
- Internal pressure compensation option available for improved measurement performance
- Modbus communications available as standard
- SIL 2 hardware compliant

APPLICATIONS

- Process control
- Safety-critical oxidation, such as ethylene oxide and propylene oxide purity
- Flare stack analysis
- Vapor recovery

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
		SAFETY

SENSING TECHNOLOGY

PARAMAGNETIC

SERVOTOUGH OxyExact 2200

HAZARDOUS AREA

HIGH-SPEC PROCESS O₂ ANALYZER OFFERS SAFE OR HAZARDOUS AREA CONTROL WITH UP TO SIX TRANSMITTERS

The OxyExact 2200 high-specification O₂ analyzer offers an unrivaled combination of precision, flexibility and performance for optimum process and safety control. The OxyExact 2200 can be configured with a Zone 1 or Zone 2 hazardous area control unit, with up to six transmitters per control unit.



FEATURES AND BENEFITS

- Zone 1 certified to ATEX Cat 2, IECEx, CML (Japan) and FM/CSA Class 1 Division 1
- Up to six transmitters can be connected to one control unit
- Control units use an option card based I/O system to allow expansion of I/O to suit system requirements
- Transmitter three-enclosure systems allow sampling of any flammable gas up to 100% O₂ and pressures of up to 45psia
- High-temperature transmitter eliminates the need to condense hot wet samples prior to analysis
- SIL 2 hardware compliant

APPLICATIONS

- Oxidation control reactions
- EO, PTA and EDC manufacturing
- Catalyst regeneration
- Solvent recovery

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
		SAFETY

SENSING TECHNOLOGY

PARAMAGNETIC

SERVOTOUGH SpectraScan 2400

HAZARDOUS AREA

REVOLUTIONARY INLINE REAL-TIME ANALYSIS OF HYDROCARBON COMPONENTS C1-C6

A real-time optical analyzer utilizing the Precise field-proven optical bench, the SpectraScan 2400 delivers a breakthrough capability in the continuous analysis of light hydrocarbons C1-C6.



FEATURES AND BENEFITS

- North American Cat 1, Division 2 ATEX Cat 3 IECEx Zone 2
- Tunable band-pass filter enables simultaneous scanning of selected wavelength bands for gases including methane, ethane, propane and iso-butane
- Unique tunable filter process with Infrared photometer technology delivers industry-leading interference compensation

APPLICATIONS

- BTU/Wobbe content measurement
- Gas turbine, engines, fuel cells
- Flare stack monitoring

GAS	MEASURES	APPLICATION
CARBON MONOXIDE	PERCENT	PROCESS CONTROL
CARBON DIOXIDE	CALORIFIC VALUE	QUALITY
C1-C6		
HYDROGEN SULFIDE		

SENSING TECHNOLOGY

SPECTROSCOPIC

SERVOTOUGH SpectraExact 2500

HAZARDOUS AREA

RUGGED PHOTOMETRIC GAS ANALYZER FOR DEMANDING PROCESS APPLICATIONS

Servomex's iconic industry-leading Photometric analyzer delivers flexible single and multicomponent gas analysis capability for corrosive, toxic and flammable sample streams. The SpectraExact 2500's reliable, accurate and stable real-time online process analysis makes it ideal for a range of process, combustion and emissions gas analysis applications.



NEW MODEL COMING SOON

FEATURES AND BENEFITS

- IECEx and North American hazardous area approvals
- Robust and high-performance NDIR analyzer for industrial and process applications
- Non-contact analysis, with the sample cell segregated from the electronics for ease of maintenance and safe operation

APPLICATIONS

- Water in EDC/solvents
- Ethylene production
- TDI production
- Chlorine production

GAS	MEASURES	APPLICATION
TOXIC	PERCENT	PROCESS CONTROL
FLAMMABLE	TRACE PPM	
CORROSIVE		

SENSING TECHNOLOGY

GAS FILTER CORRELATIONINFRARED

SERVOTOUGH FluegasExact 2700

HAZARDOUS AREA

ADVANCED FLUE GAS ANALYZER FOR HIGH-TEMPERATURE MEASUREMENT OF O₂ AND COMBUSTIBLES

Designed to measure O₂ and COe in flue gases for improved combustion efficiency and reduced emissions, the FluegasExact 2700 gas analyzer is designed to suit the most demanding needs of combustion efficiency applications in the power generation and process industries.



FEATURES AND BENEFITS

- ATEX Cat. 3, IECEx Zone 2 and North America Class 1, Division 2
- Unique Flowcube flow sensor technology enables positive flow conditions to be validated with optional flow alarm
- Sulfur-resistant combustibles sensor enables sensor to operate at elevated sulfur levels
- Close-coupled extractive measurement principle
- Flame traps incorporated as standard within sample compartment
- Wide selection of probe lengths and materials available

APPLICATIONS

- Process heaters
- Utility boilers
- Thermal crackers
- Crematoria and incinerators

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
COMBUSTIBLES	TRACE PPM	COMBUSTION

SENSING TECHNOLOGY

CALORIMETRYZIRCONIA

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SERVOTOUGH Laser 3 Plus EnvironmentalHAZARDOUS AREA

COMPACT NH₃ MEASUREMENT, OPTIMIZED FOR AMMONIA SLIP DeNOx APPLICATIONS

This Tunable Diode Laser (TDL) analyzer, specifically optimized for ammonia slip measurement, provides all the benefits of Servomex's TDL technology in a compact, light unit, offering unparalleled installation flexibility plus cost and performance benefits.



FEATURES AND BENEFITS

- High measurement reliability utilizing Servomex's own line lock cuvette technology
- ATEX, IECEx and North American hazardous area approvals
- A compact analyzer specifically optimized for the fast, accurate and responsive measurement of NH₃
- Auto-validation feature provides complete assurance of ongoing measurement accuracy

APPLICATIONS

- Process heaters
- Incinerators
- Power stations
- Furnaces
- Thermal oxidizers

GAS	MEASURES	APPLICATION
AMMONIA DeNOx	TRACE PPM	PROCESS CONTROL
ENVIRONMENTAL NH ₃		EMISSIONS

SENSING TECHNOLOGY

TUNABLE DIODE LASER



SERVOTOUGH Laser 3 Plus CombustionHAZARDOUS AREA

COMPACT COMBUSTION ANALYZER OPTIMIZED FOR CO, O₂, OR CO + CH₄ MEASUREMENTS

Containing all the benefits of Servomex's TDL technology in a light, compact unit, with unmatched installation flexibility plus cost and performance benefits, this analyzer is optimized for fast, accurate and responsive measurements in combustion and process control, making it a must for safety applications.



FEATURES AND BENEFITS

- High safety integrity utilizing Servomex's own line lock cuvette technology
- Compact size means quick and easy installation by one person with on-board display negating the need for laptop configuration
- ATEX, IECEx and North American hazardous area approvals. Approved for process Zone 2. SIL 2 assessed and CE marked
- Auto-validation feature provides complete assurance of ongoing measurement accuracy

APPLICATIONS

- Process heaters
- Incinerators
- Power stations
- Furnaces
- ESP protection
- Thermal oxidizers

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
CARBON MONOXIDE	TRACE PPM	COMBUSTION
CARBON MONOXIDE + METHANE		

SENSING TECHNOLOGY

TUNABLE DIODE LASER



SERVOTOUGH Laser 3 Plus ProcessHAZARDOUS AREA

COMPACT TDL GAS ANALYZER, OPTIMIZED FOR PROCESS O₂ MEASUREMENTS

All the benefits of Servomex's TDL technology in a small, light unit offering unparalleled installation flexibility plus cost and performance benefits. Optimized for the fast, accurate and responsive measurement of process O₂ in hot or hazardous conditions.



FEATURES AND BENEFITS

- High safety integrity utilizing Servomex's own line lock cuvette technology
- ATEX, IECEx and North American hazardous area approvals. Approved for process Zone 2. SIL 2 assessed and CE marked
- Quick and easy installation by one person with on-board display negating the need for laptop configuration
- Auto-validation feature provides complete assurance of ongoing measurement accuracy

APPLICATIONS

- Oxidation control
- Inerting
- Safety monitoring
- Flare gas monitoring
- Combustion control (<500°C, 932°F)
- Coal to chemical

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
		COMBUSTION

SENSING TECHNOLOGY

TUNABLE DIODE LASER



SERVOPRO AquaXact 1688SAFE AREA

A FAST, ACCURATE AND RESILIENT MOISTURE MEASUREMENT SOLUTION

The AquaXact 1688 is a rugged ultra-thin film Aluminum Oxide moisture sensor that enables the measurement of moisture in a wide variety of gas phase process applications, such as glove boxes, air separation units, regenerative skid dryers, combustion, and instrument air, with no calibration required after dry-out.



FEATURES AND BENEFITS

- Functions as a standalone 4-20mA transmitter or remotely interfaces with our digital controller, MonoExact DF310E and MultiExact 4100
- NIST-traceable field-replaceable sensor element for seamless recalibration
- Stainless steel, weatherproof casing enables operation in ambient temperatures ranging from -10°C to +70°C (14°F to 158°F)

APPLICATIONS

- Glove boxes
- Solder reflow ovens
- Compressed air generation
- Ethylene production

GAS	MEASURES	APPLICATION
WATER	DEW POINT	PROCESS CONTROL
	PPMV	

SENSING TECHNOLOGY

ALUMINUM OXIDE



SERVOPRO AquaXact 1688 ControllerSAFE AREA

DIGITAL CONTROLLER PLATFORM FOR THE AquaXact 1688

Built specifically to work in harmony with the AquaXact 1688 ultra-thin film Aluminum Oxide moisture transmitter, this digital controller provides a high-clarity color touchscreen display, alarms, relays and advanced communications protocols, and allows easy sensor tip replacement in the field.



FEATURES AND BENEFITS

- Dew point and ppmv H₂O measurements
- Tight Al₂O₃ pore structure provides the AquaXact 1688 sensor with rapid response times
- The dense geometry increases stability and reduces drift
- Compact footprint for easy integration into your system
- Advanced digital communications including Ethernet, Modbus TCP/IP and PROFIBUS

APPLICATIONS

- Air separation units
- Glove boxes
- Instrument air units
- Refining gases

GAS	MEASURES	APPLICATION
WATER	DEW POINT	PROCESS CONTROL
	PPMV	

SENSING TECHNOLOGY

ALUMINUM OXIDE



SERVOPRO MonoExact DF150ESAFE AREA

TOUCHSCREEN OPERATED PPM O₂ ANALYZER FOR GENERAL INDUSTRIAL APPLICATIONS

With a new and improved digital touchscreen and icon-driven guided user interface (GUI) for easier operation, the MonoExact DF150E combines the reliability of Servomex's tried and tested Coulometric O₂ sensor with a more user-friendly package.



FEATURES AND BENEFITS

- Updated digital sensor includes new operation and maintenance features that reduce cost of ownership
- Digital analyzer with self-diagnostic smart operating system monitors itself, so you can better manage your process
- Servomex proprietary software makes reporting and parameter control simple

APPLICATIONS

- Glove boxes
- Heat treating
- Solder reflow ovens
- Industrial gas production

GAS	MEASURES	APPLICATION
OXYGEN	TRACE PPM	PROCESS CONTROL
	ULTRA TRACE PPB	QUALITY

SENSING TECHNOLOGY

COULOMETRIC



SERVOPRO MonoExact DF310E

SAFE AREA

NEXT-GENERATION DIGITAL O₂ ANALYZER DESIGNED FOR INDUSTRIAL GAS APPLICATIONS

Designed specifically for accurately measurements of O₂ in industrial gas applications, the MonoExact DF310E is a next-generation digital O₂ analyzer that combines precision trace-level measurement with a new icon-driven guided user interface (GUI) and advanced digital communications.



FEATURES AND BENEFITS

- Advanced touchscreen GUI for intuitive setup and operation; now with favorite icon page and text over icon display
- Digital analyzer with self-diagnostic smart operating system monitors itself, so you can better manage your process
- AquaXact Aluminum Oxide sensor is optional for simultaneous O₂ and H₂O monitoring
- RS232, RS485, Modbus, PROFIBUS and Ethernet Modbus TCP/IP

APPLICATIONS

- Air separation units
- Medical/industrial gases
- Specialty gas blending

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
WATER	TRACE PPM	QUALITY
	ULTRA TRACE PPB	

SENSING TECHNOLOGY

COULOMETRIC

PARAMAGNETIC

ALUMINUM OXIDE

SERVOPRO 4900 Multigas

SAFE AREA

AN ADVANCED DIGITAL MULTI-GAS CEMS ANALYZER

Specifically designed for Continuous Emissions Monitoring Systems (CEMS) for flue gas, the SERVOPRO 4900 Multigas provides up to four simultaneous gas stream measurements. It combines Servomex's leading-edge sensing technologies with a modern digital platform for next-generation performance.



FEATURES AND BENEFITS

- A comprehensive solution for CEMS analysis of multiple flue gas components
- Low maintenance and cost of ownership
- Advanced digital communications including Ethernet (Modbus TCP/IP), Modbus RS485 and PROFIBUS
- Automated calibration/validation routines triggered by internal timer or external triggers
- Completely updated icon-driven software interface for easy set-up and operation

APPLICATIONS

- Utility boilers
- Chemical incinerators
- Crematoria
- Mobile labs

GAS	MEASURES	APPLICATION
MULTIPLE	PERCENT	EMISSIONS
	TRACE PPM	

SENSING TECHNOLOGY

GAS FILTER CORRELATION

PARAMAGNETIC

INFRARED

SERVOPRO MultiExact 4100

SAFE AREA

A SOPHISTICATED, NEXT-GENERATION MULTI-GAS ANALYZER PROVIDING A HIGHLY ADAPTABLE ANALYSIS SOLUTION

The MultiExact 4100 is a high-performance multi-gas analyzer designed to provide up to four simultaneous gas stream measurements including: O₂ (trace, control, and purity), CO₂, CO, N₂O, CH₄ (trace) and H₂O.



FEATURES AND BENEFITS

- Comprehensive solution for industrial and medical gas manufacture and for pharmacopeia applications
- Integrated support for the AquaXact 1688 Aluminum Oxide moisture transmitter
- Uses ultra-stable, non-depleting digital sensing technologies that help extend maintenance intervals

APPLICATIONS

- Product purity on air separation plants
- Process control on air separation plants
- Monitor trace CO₂ on scrubbed air inlet to air separation process
- Validation of medical O₂, N₂ and air

GAS	MEASURES	APPLICATION
MULTIPLE	PERCENT	PROCESS CONTROL
	TRACE PPM	QUALITY

SENSING TECHNOLOGY

GAS FILTER CORRELATION

PARAMAGNETIC

INFRARED

ZIRCONIA

ALUMINUM OXIDE

SERVOPRO MultiExact 4200

SAFE AREA

A SOPHISTICATED, NEXT-GENERATION MULTI-GAS ANALYZER PROVIDING A HIGHLY ADAPTABLE ANALYSIS OF FLAMMABLE GAS SAMPLES FOR TRACE CONTAMINANTS IN INDUSTRIAL APPLICATIONS

The MultiExact 4200 is a high-performance multi-gas analyzer designed to provide up to four simultaneous gas stream measurements including: O₂ control, CO₂, CO, N₂O and CH₄ (trace).



FEATURES AND BENEFITS

- Comprehensive solution for flammable gas contaminant monitoring
- Integrated support for the AquaXact 1688 Aluminum Oxide moisture transmitter
- Uses ultra-stable, non-depleting digital sensing technologies that help extend maintenance intervals

APPLICATIONS

- Hydrogen production
- HyCO plants
- Syngas production

GAS	MEASURES	APPLICATION
MULTIPLE	PERCENT	PROCESS CONTROL
	TRACE PPM	QUALITY

SENSING TECHNOLOGY

GAS FILTER CORRELATION

PARAMAGNETIC

INFRARED

SERVOPRO NanoTrace FTIR

SAFE AREA

UNRIVALLED ANALYSIS OF CO, CO₂ AND CH₄ IN UHP GASES

Using industry-leading Fourier Transformation Infrared Spectroscopy sensing, the FTIR gas analyzer is engineered to meet the requirements of most critical continuous quality control applications in ultra-high-purity (UHP) environments.



FEATURES AND BENEFITS

- Lower Detection Limits as low as 25ppt
- Broad detection range: 0ppb-10ppm
- Highly reliable, virtually no maintenance, calibration or liquid nitrogen cooling required

APPLICATIONS

- In-line process monitoring
- Batch sampling
- Gas purity analysis
- Gas certification analysis
- Leak detection

GAS	MEASURES	APPLICATION
MULTIPLE	TRACE PPT	QUALITY

SENSING TECHNOLOGY

INFRARED

COMING SOON

SERVOPRO Chroma

SAFE AREA

HIGHLY VERSATILE TRACE GAS ANALYZER PLATFORM CONFIGURABLE TO A WIDE RANGE OF APPLICATIONS

Offering a non-depleting Plasma Emission Detector (PED), Flame Ionization Detector (FID) and Thermal Conductivity Detector (TCD), the Chroma analyzer is one of the most versatile gas analyzers for trace gas measurement available. Most applications will be satisfied by a single 4U rack analyzer configuration, making the Chroma a compact, cost-effective solution for continuous process control or quality monitoring.



FEATURES AND BENEFITS

- Fully automated – tune to the application – system for unique simplicity of use
- Standalone system requires no third-party software or computer to operate
- For CH₄/NMHC measurements, the Plasma HC system requires no FID and therefore no H₂ fuel gas

APPLICATIONS

- Medical gas production
- Air separation plants
- Cryogenic truck loading station
- High purity gas production

GAS	MEASURES	APPLICATION
MULTIPLE	PERCENT	PROCESS CONTROL
	TRACE PPM	QUALITY
	ULTRA TRACE PPB	

SENSING TECHNOLOGY

GAS CHROMATOGRAPHY

FLAME IONIZATION DETECTOR

PLASMA

THERMAL CONDUCTIVITY

SERVOPRO NanoChrome

SAFE AREA

SUB-PPB TRACE MEASUREMENT OF H₂, CH₄, CO, CO₂, N₂, Ar AND NMHC FOR THE SEMICONDUCTOR INDUSTRY

Incorporating the latest advances in gas sensing technology and signal processing methodology, the NanoChrome revolutionizes ultra-trace purity measurements for the semiconductor industry.

FEATURES AND BENEFITS

- In compliance with Low Voltage, EMC and applicable Directives
- New Plasma Emission Detector (PED) Sensor technology enables sub-ppb measurements of H₂, CH₄, CO, CO₂, N₂, Ar and NMHC
- Enables unique total Servomex solution for UHP gas analysis

APPLICATIONS

- Semiconductor production – quality control measurements
- Semiconductor production – stationary analytical systems
- UHP gas production – quality control measurements



GAS	MEASURES	APPLICATION
MULTIPLE	ULTRA TRACE PPB	QUALITY
	ULTRA TRACE PPT	

..... SENSING TECHNOLOGY

GAS
CHROMATOGRAPHY



PLASMA



SERVOPRO DF-500 Range

SAFE AREA

LEADING ULTRA-TRACE PPT O₂ ANALYZER RANGE

Verified by independent experts as measuring O₂ to the lowest ppt levels available, the DF-500 analyzer range delivers the premium performance in ultra-trace O₂ measurement. Consisting of the DF-550E NanoTrace and DF-560E NanoTrace II, the NanoTrace series delivers exceptional O₂ measurements at trace and ultra-trace ppt levels.

FEATURES AND BENEFITS

- The industry standard for the reliable measurement of O₂ in semiconductor manufacture
- Fast response and quick upset recovery ensures ultimate performance
- Options include flexible configurations hand-carry portable option and on-board calibration systems

APPLICATIONS

- Continuous quality control monitoring
- Inert gases control checks for electronics grade gases
- Post purifier quality certification
- Leak detection for electronics grade gases



GAS	MEASURES	APPLICATION
OXYGEN	TRACE PPM	QUALITY
	ULTRA TRACE PPB	
	ULTRA TRACE PPT	

.....  SENSING TECHNOLOGY

COULOMETRIC



SERVOPRO DF-700 Range

SAFE AREA

TUNABLE DIODE LASER (TDL) TRACE MOISTURE ANALYZER RANGE

A sophisticated process moisture analyzer range which offers users the comprehensive solution for trace and ultra-trace moisture measurement, the DF-700 series combines the latest TDL Absorption Spectroscopy technology, a robust measuring cell and a true baseline reference for highly accurate moisture measurement.

FEATURES AND BENEFITS

- Exceptional range from 100ppt to 20ppm moisture level readings depending on the model
- Only true Laser Absorption Spectroscopy technology in the market space which is unaffected by gas contaminants that plague CRDS laser systems
- TDLAS line lock technology keeps the laser on the moisture peak centroid measuring the entirety of the moisture's mass under the Voigt curve

APPLICATIONS

- 730: Quality control of HCl gas
- 740: Analysis of electronics-grade NH₃ specialty gas
- 745: Inert gases leak detection for LED and LCD plants
- 745 SGMax: Specialty gas cylinder quality control
- 749: HP bulk gases used in semiconductor applications
- 750: Bulk UHP gas CQC for semiconductor fabs
- 760E: O₂ and H₂O monitoring in UHP bulk gases used in semiconductor applications



GAS	MEASURES	APPLICATION
WATER	TRACE PPM	QUALITY
	ULTRA TRACE PPB	
	ULTRA TRACE PPT	



SENSING TECHNOLOGY

LASER MOISTURE



SERVOPRO NanoChrome ULTRA

SAFE AREA

THE NUMBER ONE CHOICE FOR ULTRA-TRACE PURITY MEASUREMENTS IN THE SEMICONDUCTOR INDUSTRY

Delivering superior ultra-trace measurements of UHP gases in a wide range of background gases, the revolutionary NanoChrome ULTRA incorporates the latest advances in sensing and signal processing methodology, for exceptional performance.

FEATURES AND BENEFITS

- Innovative high-sensitivity Plasma Emission Detector (PED) enables ultra-trace measurements of Ar, N₂, H₂, CH₂, CO, CO₂ and NMHC
- ProPeak peak detection technique enables unprecedented measurement sensitivity
- A complete stand-alone UHP gas analysis solution when combined with DF-500 and DF-700 analyzers

APPLICATIONS

- Semiconductor production – quality control measurements
- Semiconductor production – stationary analytical systems
- UHP gas production – quality control measurements



GAS	MEASURES	APPLICATION
MULTIPLE	ULTRA TRACE PPB	QUALITY
	ULTRA TRACE PPT	

✓

SENSING TECHNOLOGY

GAS
CHROMATOGRAPHY



PLASMA



SERVOPRO DF-560E NanoTrace ULTRA

SAFE AREA

MEASURES ULTRA-TRACE O₂ TO THE LOWEST LEVELS

Designed to measure ultra-trace O₂ to the ultra-low ppt levels demanded by the semiconductor sector, the DF-560E ULTRA delivers an industry-leading 45ppt LDL. Once the analyzer is measuring below 1 ppb, the units automatically convert to ppt for better resolution of the smallest of concentration movements.

FEATURES AND BENEFITS

- Lowest level O₂ detection available to the semiconductor industry
- Automated maintenance performs zero and span calibrations on a scheduled basis
- Fast response and quick upset recovery ensures highly stable operation

APPLICATIONS

- Continuous quality control monitoring
- Inert gases control checks for electronics grade gases
- Post-purifier quality certification
- Leak detection for electronics-grade gases



GAS	MEASURES	APPLICATION
OXYGEN	TRACE PPM	QUALITY
	ULTRA TRACE PPB	
	ULTRA TRACE PPT	



SENSING TECHNOLOGY

COULOMETRIC



SERVOPRO DF-750 NanoTrace ULTRA

SAFE AREA

THE FIRST CHOICE IN MOISTURE ANALYSIS FOR THE SEMICONDUCTOR INDUSTRY

A TDL-based trace/ultra-trace analyzer, the DF-750 ULTRA delivers industry-best measurements of moisture as a contaminant in the UHP gases used in 300mm semiconductor fabs, with a LDL of 55ppt.

FEATURES AND BENEFITS

- Exceptional 55ppt LDL delivers the sensitivity and precision demanded by semiconductor makers
- Water contact with optical components is minimized for optimum reliability
- Storage and recall function for archiving of operational history

APPLICATIONS

- Continuous quality control of bulk UHP gases for semiconductor fabs



GAS	MEASURES	APPLICATION
WATER	TRACE PPM	QUALITY
	ULTRA TRACE PPB	
	ULTRA TRACE PPT	



SENSING TECHNOLOGY

LASER MOISTURE



SERVOPRO DF-760E NanoTrace ULTRA

SAFE AREA

MARKET-LEADING DUAL ANALYSIS OF O₂ AND MOISTURE

Delivering industry-leading quality control measurements for UHP bulk gases, the compact DF-760E NanoChrome ULTRA analyzer is a superior solution for the dual measurement of trace and ultra-trace moisture and O₂.



FEATURES AND BENEFITS

- Industry-leading LDLs of 45ppt O₂ and 55ppt moisture
- Non-depleting sensing technologies reduce ongoing costs
- Easy operation via front panel or digital communication options

APPLICATIONS

- Monitoring O₂ and moisture as contaminants in UHP bulk gases used in semiconductor applications

GAS	MEASURES	APPLICATION
WATER	TRACE PPM	QUALITY
OXYGEN	ULTRA TRACE PPB	
	ULTRA TRACE PPT	

✓ SENSING TECHNOLOGY

LASER MOISTURE

COULOMETRIC

SERVOPRO Plasma

SAFE AREA

RELIABLE MONITORING OF N₂ IN Ar AND He, OPTIMIZED FOR AIR SEPARATION UNIT (ASU) PLANT OPERATIONS

Specifically designed for the continuous monitoring of N₂ in Ar or He or both, the Plasma's non-depleting Plasma Emission Detector provides an accurate, highly stable and reliable measurement ideal for the requirements of ASU plant operators.



FEATURES AND BENEFITS

- Electrical safety to IEC 61010-1: Ed 3. In compliance with Low Voltage, EMC and applicable Directives
- Wide measurement range – 0-1ppm, 0-10ppm, 0-100ppm (higher on request)
- Electronic flow control system for low flow consumption and reading stability

APPLICATIONS

- Argon production
- Truck loading
- Pure gas bottling
- Specialty gas laboratories

GAS	MEASURES	APPLICATION
NITROGEN	TRACE PPM	QUALITY

✓ SENSING TECHNOLOGY

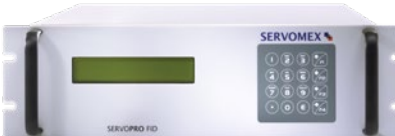
PLASMA

SERVOPRO FID

SAFE AREA

TRACE HYDROCARBON ANALYZER IDEAL FOR AIR SEPARATION UNITS (ASU) SAFETY AND QUALITY CONTROL APPLICATIONS

A Flame Ionization Detector analyzer designed to assure safe operation for cryogenic ASU, the FID ensures the level of Total Hydrocarbons (THC) is maintained below flammable limits, as well as providing quality control in pure O₂, N₂, Ar, air, He and CO₂.



FEATURES AND BENEFITS

- Electrical safety to IEC 61010-1. In compliance with Low Voltage, EMC and applicable Directives
- Excellent output resolution over three operating ranges
- Electronic flow controllers for air, fuel and sample for no dependency to atmospheric pressure variations and inlet pressure variation

APPLICATIONS

- Cryogenic air separation
- Process control
- Food gas manufacture
- Product validation

GAS	MEASURES	APPLICATION
TOTAL HYDROCARBONS	TRACE PPM	SAFETY
		QUALITY

✓ SENSING TECHNOLOGY

FLAME IONIZATION DETECTOR

SERVOPRO NOx

SAFE AREA

CHEMILUMINESCENCE DETECTOR ANALYZER FOR KEY EMISSIONS APPLICATIONS INVOLVING ULTRA-LOW NO, NO₂ AND NOx

Utilizing Chemiluminescence detection technology to measure NO or NO/NO₂/NOx concentrations in industrial gas and vehicle emission applications, the versatile SERVOPRO NOx can be calibrated for four measurement ranges starting from ultra-low to high ppm and is easy to install and operate.



FEATURES AND BENEFITS

- High-dynamic-range NOx emissions monitoring solution with a fast response
- Non-depleting light-based measurement and electronic flow control keeps costs low
- Heated version available for wet to dry conversion option
- Mobile Source emissions standard EPA 1065/1066 and LD Euro 6, HD Euro V1 compliant

APPLICATIONS

- Continuous Emissions Monitoring Systems
- Scrubber efficiency
- Turbine/generator feedback control
- SCR/SNCR feedback control

GAS	MEASURES	APPLICATION
NITRIC OXIDE	TRACE PPM	PROCESS CONTROL
NITROGEN DIOXIDE		QUALITY
NITROGEN OXIDES		EMISSIONS

✓ SENSING TECHNOLOGY

CHEMILUMINESCENCE

SERVOPRO HFID

SAFE AREA

HIGH-PERFORMANCE FAST ANALYSIS USING HEATED FID

Using a highly sensitive heated Flame Ionization Detector (HFID) for measuring volatile hydrocarbon concentrations in industrial or vehicle emission applications, the HFID utilizes an internally heated oven set to 190°C (374°F), to maintain the sample gas above its dew point, for optimum performance in THC analysis. Can be equipped with a non-methane cutter for additional methane (CH₄) and non-methane hydrocarbon (NMHC) reporting.



FEATURES AND BENEFITS

- Four user-definable measurement ranges, reconfigurable in the field
- High-accuracy, gas-selective FID technology for maximized uptime
- Heated oven for maximum stability and "hot/wet" sampling
- EPA Method 25A compliant
- EPA 1065/1066 and LD Euro 6, HD Euro V1 compliant

APPLICATIONS

- Continuous Emissions Monitoring Systems
- VOC abatement
- Scrubber efficiency
- Compliance monitoring and testing

GAS	MEASURES	APPLICATION
TOTAL HYDROCARBONS	TRACE PPM	PROCESS CONTROL
METHANE		QUALITY
NON-METHANE HYDROCARBONS		EMISSIONS

✓ SENSING TECHNOLOGY

FLAME IONIZATION DETECTOR

GAS DETECTION OxyDetect

SERVOMEX

NON-DEPLETING PARAMAGNETIC O₂ MONITOR DESIGNED FOR LIFE SAFETY APPLICATIONS

Oxygen depletion monitor designed for safe area or hazardous area environments, utilizing superior performance of non-depleting Hummingbird Paramagnetic O₂ sensing technology.



FEATURES AND BENEFITS

- IP54 (indoor use only)
- The most reliable O₂ detector on the market
- No more false readings or false alarms caused by depleting cell technologies
- Configurable alarm relays and mA output available as standard
- Modbus digital communications option available
- SIL 2 hardware compliant

APPLICATIONS

- Pharmaceutical plants
- Helium production and storage
- Semiconductor facilities
- Laboratories and universities

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	SAFETY

✓ SENSING TECHNOLOGY

PARAMAGNETIC

SERVOFLEX Micro i.s. 5100

PORTABLES

INTRINSICALLY SAFE ANALYZER MEASURES O₂

Designed for the measurement of oxygen in potentially flammable gas samples, the intrinsically safe Micro i.s. 5100 is a unique analyzer certified to Zone 0 and Division 1 and suitable for measuring percent levels of O₂.



FEATURES AND BENEFITS

- Intrinsically safe design (Zone 0) to ATEX and IECEx standards, Division 1 to FM and CSA standards, ensures safety operation in hazardous environments
- IP65 rugged design and optional carry case allows for use in the most demanding environments
- Powered by integral rechargeable battery with up to 18-hour run time
- Ergonomic compact design ensures easy operation on the move
- Available in non-pump or internal pumped versions with optional sample conditioning kit

APPLICATIONS

- Process monitoring
- Inerting applications
- Controlled atmosphere monitoring
- Hazardous area combustion optimization

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
		SAFETY

SERVOFLEX MiniMP 5200

PORTABLES

BENCHTOP ANALYZER OFFERING SINGLE OR DUAL MEASUREMENTS OF O₂ AND CO₂

The only truly portable battery-powered gas analyzer with MCERTS and TUV certification, the MiniMP 5200 is designed to offer single or dual measurement of O₂ and CO₂ by utilizing Servomex's advanced Paramagnetic and Infrared sensing technologies.



FEATURES AND BENEFITS

- MCERTS V3.3, Annex F and TUV QAL 1 makes the MiniMP ideal for source testers that require reference O₂ analysis for Continuous Emissions Monitoring Systems (CEMS) verification
- Li-ion battery system offers unique true portability
- Non-depleting sensor design ensures long service with minimal calibration

APPLICATIONS

- Laboratories and research
- Air separation and gas bottling plants
- Transfilling
- Combustion analysis
- Medical gas verification

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
CARBON DIOXIDE		QUALITY
		EMISSIONS

SERVOFLEX MiniFoodPack 5200

PORTABLES

BENCHTOP ANALYZER FOR QUALITY CONTROL/CHECKS IN MODIFIED ATMOSPHERE PACKAGING

A small sample volume portable benchtop analyzer designed specifically for the checking and quality control of gas mixtures in Modified Atmosphere Packaging (MAP) used in the food and pharmaceutical industries, the MiniFoodPack 5200 enables single or dual measurements for percent levels of O₂ and CO₂.



FEATURES AND BENEFITS

- CE marked and in compliance with EEC, EMC and WEEE Directives. UL approved and CE marked 100-240V/43-70Hz AC power supply
- Range of sampling accessories is available for taking measurement from rigid or flexible pack
- Rechargeable battery option enables complete portability for flexible operation

APPLICATIONS

- MAP quality testing for food and beverage products
- MAP for packaged pharmaceuticals
- Equilibrium Modified Atmosphere Packaging (EMAP) fresh consumable produce testing
- Laboratory and research

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	QUALITY
CARBON DIOXIDE		

SERVOFLEX MiniHD 5200

PORTABLES

PORTABLE GAS ANALYZER FOR MEASUREMENT OF COMMON GAS MIXTURES

Designed for use in field locations or light industrial applications, the MiniHD 5200 portable gas analyzer is a rugged, heavy duty analyzer designed to accurately measure the levels of O₂, CO or CO₂ within common gas mixtures. The MiniHD 5200 utilizes Servomex's non-depleting Paramagnetic or Infrared sensors to give dependable and accurate results.



FEATURES AND BENEFITS

- Robust IP65 construction meets the demanding needs of field location analysis
- Long life Li-ion rechargeable batteries and range of sampling options ensure ease of use
- Accurate measurement of O₂, CO and CO₂ levels

APPLICATIONS

- Physiology studies
- Universities
- Combustion optimization

GAS	MEASURES	APPLICATION
OXYGEN	PERCENT	PROCESS CONTROL
CARBON MONOXIDE		COMBUSTION
CARBON DIOXIDE		SAFETY

WE'RE RIGHT BY YOUR SIDE



THE SERVOFLEX PORTABLE OXYGEN ANALYZER RANGE

Supporting the global medical care sector with reliable, portable analysis.

Contact us today: servomex.com/servoflex

Whatever your service needs, Servomex Service Network has the solution. Through our network of mobile engineers and service centers, we deliver Servomex expertise directly to your plant.

Service plan

ALL THE SUPPORT YOUR ANALYZER NEEDS

A Servomex service plan ensures our trusted gas analysis is available whenever you need it, providing maximum peace of mind.

BENEFITS

- Customized services to match your process
- Full access to Servomex's expertise and resources
- On-site and remote support
- A cost-effective package



Training

ENSURE YOUR ON-SITE USER AND MAINTENANCE TEAM ARE FULLY TRAINED ON THE RELEVANT ANALYZER

Our customized training programs can help you get the best performance from your Servomex system. Get hands-on, practical analyzer instruction.

FEATURES AND BENEFITS

- In-depth systems training
- Covers all key Servomex analyzers
- Presented by Servomex experts
- Given at our global training centers or on-site



Health check

KEEPING ON TOP OF THE OPERATIONAL EFFICIENCY OF YOUR ANALYZER CAN BE DIFFICULT AND TIME-CONSUMING

Our engineer ensures your system is performing as expected, while anomalies are detected before they become costly problems.

BENEFITS

- Quality assurance of instrument performance
- Increased reliability and trustworthy results
- Expert maintenance plans
- Avoids unscheduled repairs



On-site service support

SERVOMEX SERVICE ENGINEERS ARE THE HEART OF THE SERVOMEX SERVICE NETWORK

Ranging from emergency assistance to routine maintenance, we ensure your gas analysis systems remain efficient and safe.

FEATURES AND BENEFITS

- Skilled product specialists
- Highly experienced experts
- Covers all operational and maintenance needs
- Locally based for fast response



Service center support

WHEREVER YOU ARE, THERE'S A SERVOMEX SERVICE NETWORK TEAM NEAR YOU

For a rapid response located close to customers, our state-of-the-art service centers provide comprehensive support.

FEATURES AND BENEFITS

- Full range of services
- Regional support
- Cost-effective repairs, no compromise in quality
- Dedicated in-house team



Service agreements

YOU GET MUCH MORE THAN SERVICE WITH A SERVOMEX SERVICE AGREEMENT – YOU GET PEACE OF MIND, TOO

Regular servicing of your gas analysis systems adds real value to your operations, with service packages to meet your individual process needs.

FEATURES AND BENEFITS

- Proactive maintenance
- Ongoing partnership
- Pre-structured
- Options range from off-site telephone support to complete management and maintenance of your gas analysis system



Commissioning

WHEN INSTALLING YOUR NEW ANALYZER, A SERVICE NETWORK COMMISSIONING PACKAGE WILL ENSURE OPTIMUM PERFORMANCE

Get the performance you expect from the outset, with analyzer and systems start up and configuration by our highly trained commissioning engineers.

FEATURES AND BENEFITS

- Fast, seamless commissioning service
- Trained Servomex engineers
- Ensures optimum performance
- Qualifies analyzers for six months of additional warranty



Rentals

SERVOMEX ANALYZERS ARE AVAILABLE FOR HIRE, WHENEVER YOU NEED THEM

Source a temporary replacement analyzer for your system quickly, with complete confidence that it will operate correctly and integrate easily.

FEATURES AND BENEFITS

- A full range of analyzers to meet your requirements
- Equipment maintained to specification
- Expertise on hand to assist
- Fast delivery



Spares

MAINTAIN PROCESS UPTIME WITH RAPID ACCESS TO HIGH-QUALITY SPARE PARTS

Access to the right spare parts and consumables at the right time is critical to maintaining plant operations and safeguarding productivity. We deliver high-quality, authorized parts wherever and whenever you need them.

FEATURES AND BENEFITS

- Factory-authorized replacement parts
- Fully tested spares kits
- Ready for fast shipping
- Recommended reserve packs available



Factory Acceptance Testing

GET PEACE OF MIND THAT YOUR GAS ANALYSIS SYSTEM WILL OPERATE EXACTLY AS EXPECTED

Conducted in partnership with our expert personnel at a Servomex regional service center, a Factory Acceptance Test (FAT) ensures your system meets specifications prior to dispatch.

FEATURES AND BENEFITS

- The system performance you're expecting
- Ready to deliver the results you need from day one
- A chance to resolve unforeseen issues
- The opportunity to consult with our expert systems team



Find out more at: servomex.com/service

SYSTEMS INTEGRATION

Whatever the size of your project, Servomex Systems has the capability to build and deliver the required customized solution. We assess application requirements, site conditions and many other factors to ensure we provide the system that works best, whether it be a single analyzer or a systems house containing multiple sampling and analysis devices.

CONSULT

YOUR NEEDS ARE AT THE CENTER OF THE PROJECT

Our dedicated team will determine your process parameters at the outset, working with you at every stage to ensure the best results from your system.

BENEFITS

- Project scope
- Management procedures
- Consultation meetings
- Solution proposals
- Agreed timescales



DESIGN

WORLD-LEADING ENGINEERS FOR WORLD-LEADING PERFORMANCE

We'll select the most compatible analysis technology for your application, designed for your unique process conditions, and assembled by expert engineers.

BENEFITS

- System design
- Expert project management
- Optimum solutions
- Safety regulation



DELIVER

YOUR SYSTEM BUILT ON TIME AND BUILT TO LAST

After extensive testing, we'll deliver and install your system, providing expert support and training to ensure it operates just the way you expected, providing the results you need.

BENEFITS

- Installation
- Commissioning
- Process optimization
- Full support
- Extended service options



Analizers and panels

EXPERT GAS ANALYSIS INSTRUMENTATION, AND SAMPLING SYSTEMS FOR EASY ACCESS TO COMPONENTS FOR HASSLE-FREE CALIBRATION AND MAINTENANCE

Our wide range of sensing technologies provides diverse, easy-to-use solutions for many industrial applications.

FEATURES AND BENEFITS

- Optimized sampling and wiring for easy operation
- Keeps instrumentation in safe areas for maintenance
- Tailor-made to suit your application needs
- Fully integrated Servomex gas analysis technology



Racks

SYSTEMS INTEGRATING RACK-MOUNTED ANALYZERS FROM OUR SERVOPRO AND DF RANGES

Our rack systems locate multiple gas analyzers into a single cabinet for easy control of an array of gas analysis solutions.

FEATURES AND BENEFITS

- Multiple analyzers working seamlessly and reliably
- Intelligent software for continuous monitoring
- Designed to meet stringent safety requirements
- A scalable solution, available as fixed racks or mobile carts



Enclosures

ENCLOSURES ENSURE SUITABLE WEATHER PROTECTION FOR YOUR SYSTEM. DESIGNED FOR HAZARDOUS AREAS

Rugged enclosed cabinets keep the instrumentation under controlled conditions for reliable, continuous performance, while allowing easy access for maintenance.

FEATURES AND BENEFITS

- A complete system, designed into a protective cabinet
- Tailor-made to operate reliably in your process conditions
- Robust, high-quality materials
- Fully assembled, tested and certified



Houses

FULLY-CONTAINED AIR CONDITIONED SHELTERS FOR LARGE SYSTEMS PROJECTS, CUSTOMIZED FOR INDIVIDUAL PROCESS REQUIREMENTS

With their own lighting and power supply, these shelters provide reliable protection for gas analysis equipment and people alike.

FEATURES AND BENEFITS

- Suitable for interior or exterior installation
- Supplied with air conditioning, power distribution, lighting and customized engineering inputs and outputs
- Maximum protection against weather conditions and hazardous process environments
- Custom-designed to accommodate any number of analyzers, equipment and other utilities



Continuous Quality Control

A SOPHISTICATED, NEXT-GENERATION MULTI-GAS ANALYZER SYSTEM PROVIDING GAS ANALYSIS FOR TRACE CONTAMINANTS IN INDUSTRIAL GAS APPLICATIONS

The revolutionary SERVOPRO Chroma gives stable ppb, ppm or % level measurements for CH₄, CO, CO₂, H₂, O₂, N₂, Ar, He, and NHMC. The industry-leading SERVOPRO MonoExact DF310E provides trace level oxygen and ppm and ppb moisture measurements. And the SERVOPRO MultiExact 4100 measures O₂ purity along with CO, CO₂ and CH₄ contaminants.

FEATURES AND BENEFITS

- Unique single-manufacturer system for the Industrial Gas industry
- Monitors purity and trace impurities in all bulk inert and noble gases
- Utilizes Servomex's industry-leading analyzers
- Standard systems available, along with configurable selections for your precise stationary rack applications



Contact us today: servomex.com/systems

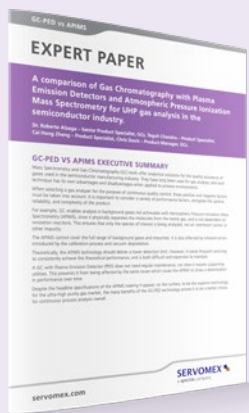
GET THE RESOURCES YOU
NEED TO SUPPORT YOUR
PROCESS SOLUTION

STAY INFORMED WITH OUR
EXPERT SOLUTIONS MAGAZINES

Available in downloadable and interactive versions, our Expert Solutions (ES) magazines cover a wide variety of topics, ranging from new product launches to complete process solutions. The publications also cover key markets, sensing technologies, and expert applications advice. Our annual Product Guide is also available, highlighting all our available gas analysis solutions.

EXPERT PAPERS

For an in-depth look at our gas analyzers and the technologies they use, download our expert papers. Written by our knowledgeable team, they examine how our sensing technologies work and explain why certain products deliver the best solution for key applications.



PRODUCT BROCHURES

For the best available information about our products, you'll want to read our product brochures. They outline how the analyzer works and which applications it's best suited to. It also explains the main features and their benefits, and lists all the certifications it has.



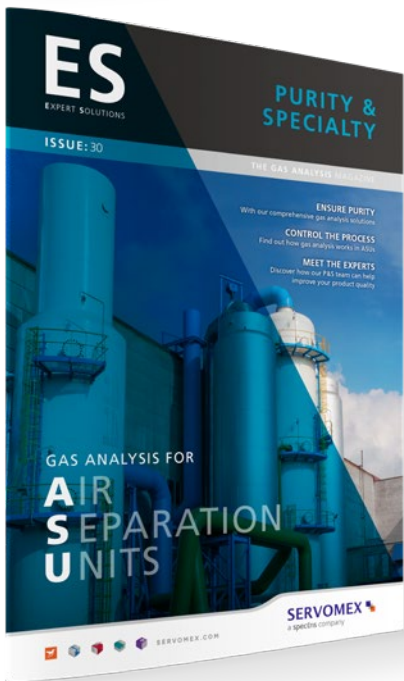
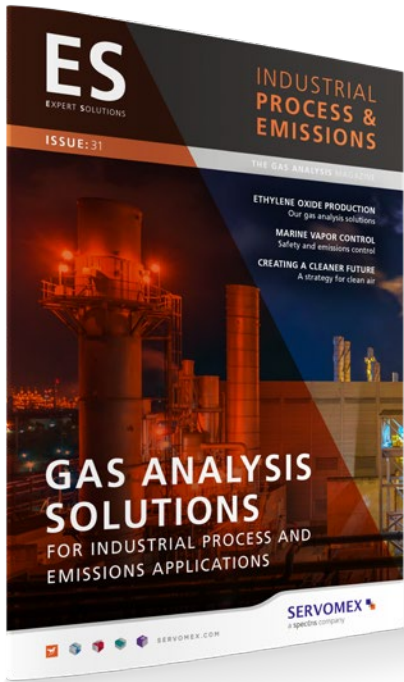
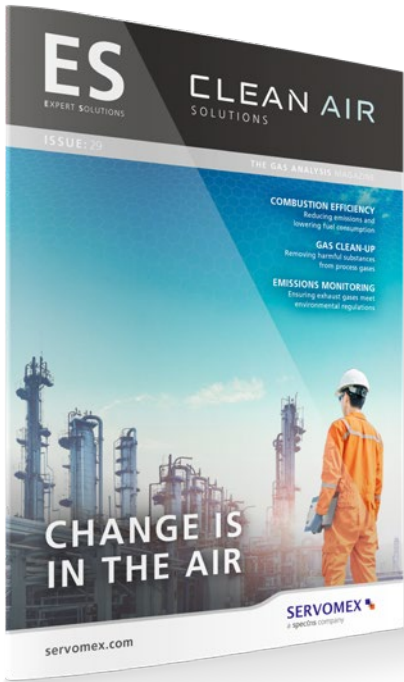
MANUALS

Whether you need to replace a lost product manual, need a quick online reference, or just want to see how the product works before you order, we've got you covered. All our existing product instruction manuals are available to download, for quickstart, installation, operation and certification.



VIDEOS

Our extensive array of videos is ready to view on our website now. Some focus on our products, including expert 'unboxings'. Others look at applications and how our products deliver the solutions you need. We also feature our experts discussing key areas of gas analysis, and how Servomex can help customers in a range of markets.



To access these resources go to: servomex.com/resources

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smart device with
only one click.



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When you sign up to receive Servomex emails, you'll be the first to know about our new products. Take control of your preferences and make sure you get all the news that's relevant to you.

