



GAS ANALYSIS SYSTEMS INTEGRATION

ANALYZERS

RACKS

PANELS

ENCLOSURES

SHELTERS

servomex.com

SERVOMEX 
a spectris company

OUR EXPERTISE YOUR SUCCESS

Servomex is an expert in gas analysis and systems integration. With a comprehensive range of analyzers and software solutions, we ensure each system meets your process analysis demands.

EXPERIENCE THE DIFFERENCE – SERVOMEX SYSTEMS INTEGRATION.

Our sole focus is on delivering total system solutions. Combining our extensive industry experience with high-quality analyzer products and unparalleled applications knowledge, we have expert solutions to meet every customer requirement.

Our decades of gas analysis expertise are built into every system we produce, with every project based on a proven methodology of processes, applications, specifications, best practices, and quality in design.

The result is a system that’s safe, environmentally friendly, easy to maintain and – most importantly – provides the data you need.

Servomex is a leader in the science of gas analysis, an innovator in sensing techniques and inventor of Paramagnetic oxygen sensing technology.

We are the only business to supply a complete range of available sensor technologies, ensuring we can evaluate and provide the best solution for every application.

		MEASUREMENT TYPE				
		COMBUSTION	EMISSIONS	PROCESS CONTROL	QUALITY	SAFETY
IP&E	Chemicals	●	●	●	●	●
	Oil and Gas Upstream	●	●	●	●	●
	Petrochemicals	●	●	●	●	●
	Refining	●	●	●	●	●
	Power	●	●	●		
P&S	Industrial Gases (N ₂ , O ₂ , H ₂ , CO ₂)	●		●	●	●
	Semiconductor (UHP)			●	●	
	Pharmaceuticals		●	●	●	●

SUPPORTED WORLDWIDE

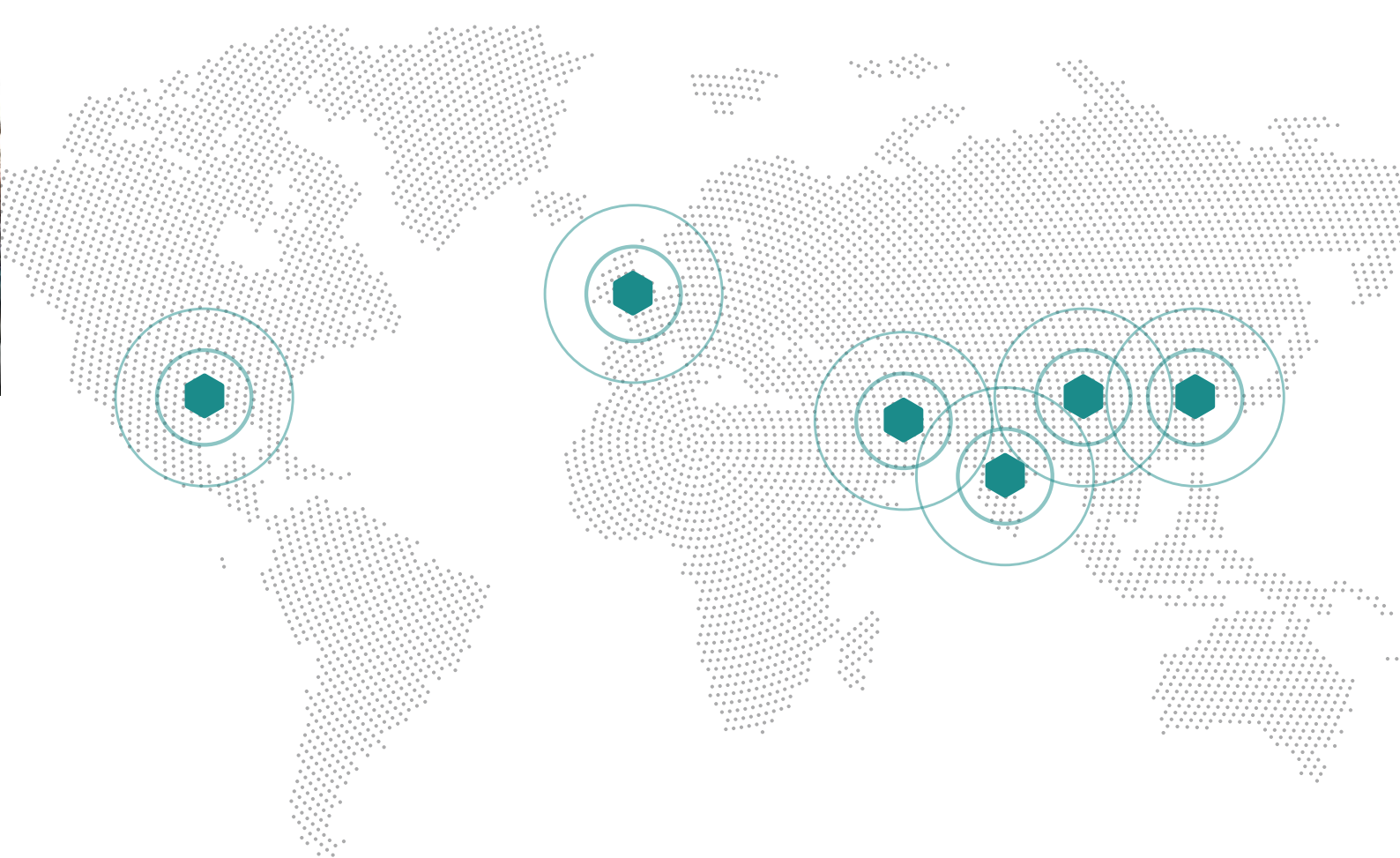
We think globally and act locally. That means you can deal with a regional team that speaks your language and understands the unique conditions facing your plant, and still have access to our worldwide expertise.

Design your system in India, have it built in the US, and get it delivered and installed in a plant in Korea – our entire global supply chain is at your disposal.

Every system we build is expertly designed in partnership with you. We aim to see the project through your eyes, consulting from the start to determine the key parameters for your process.

- Our world-leading, high-quality analyzer products ensure seamless integration
- Ease of use and reliability are built into our products
- Every system is supported by our global service network for a lifetime of performance

- AMERICAS
- ASIA PACIFIC
- CHINA
- EUROPE
- INDIA
- MIDDLE EAST



HELPING YOU BUILD A BETTER PLANT

There's a simple ethos behind our systems solutions. Our project process is based around the concepts of **consult, design and deliver**, ensuring you get the optimum system for your plant.

We approach every systems project from the viewpoint of the customer. We know you rely on accurate gas measurements. And it has to be easy to use, and completely reliable. From establishing the system parameters at the outset to FAT before installation, your voice is heard at every stage.



See how we help you build a better plant – watch our Systems video at servomex.com/videos

SERVOMEX – YOUR PARTNER FROM START TO FINISH.

Our systems team builds a true partnership with dedicated experts to execute each system project to its conclusion.

Through a consultative approach, we'll select the most compatible analysis technology for your application, based on a thorough review of your requirements and specifications.

The finished system is only shipped once it has been extensively tested and reviewed, then is commissioned and calibrated by our highly trained engineers to ensure it performs exactly as you expect.

CONSULT

Your process needs at the center of the project.

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

DESIGN

World-leading performance from highly-skilled engineers.

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

DELIVER

Your system is built on time and built to last.

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

EFFECTIVE PROJECT MANAGEMENT

All our systems are designed and built to meet these total 'best solution' criteria:

- Accurate solutions specific to the process application
- Easy to maintain and service
- Meets customer specifications and best practices for engineering
- Based on an internal standard initiative
- Safe and environmentally friendly
- Meeting the highest possible standards of quality

ENJOY THE BENEFITS OF A SERVOMEX SYSTEM

1

OPTIMIZED
PERFORMANCE

2

EXTENDED
SYSTEM
LIFETIME

3

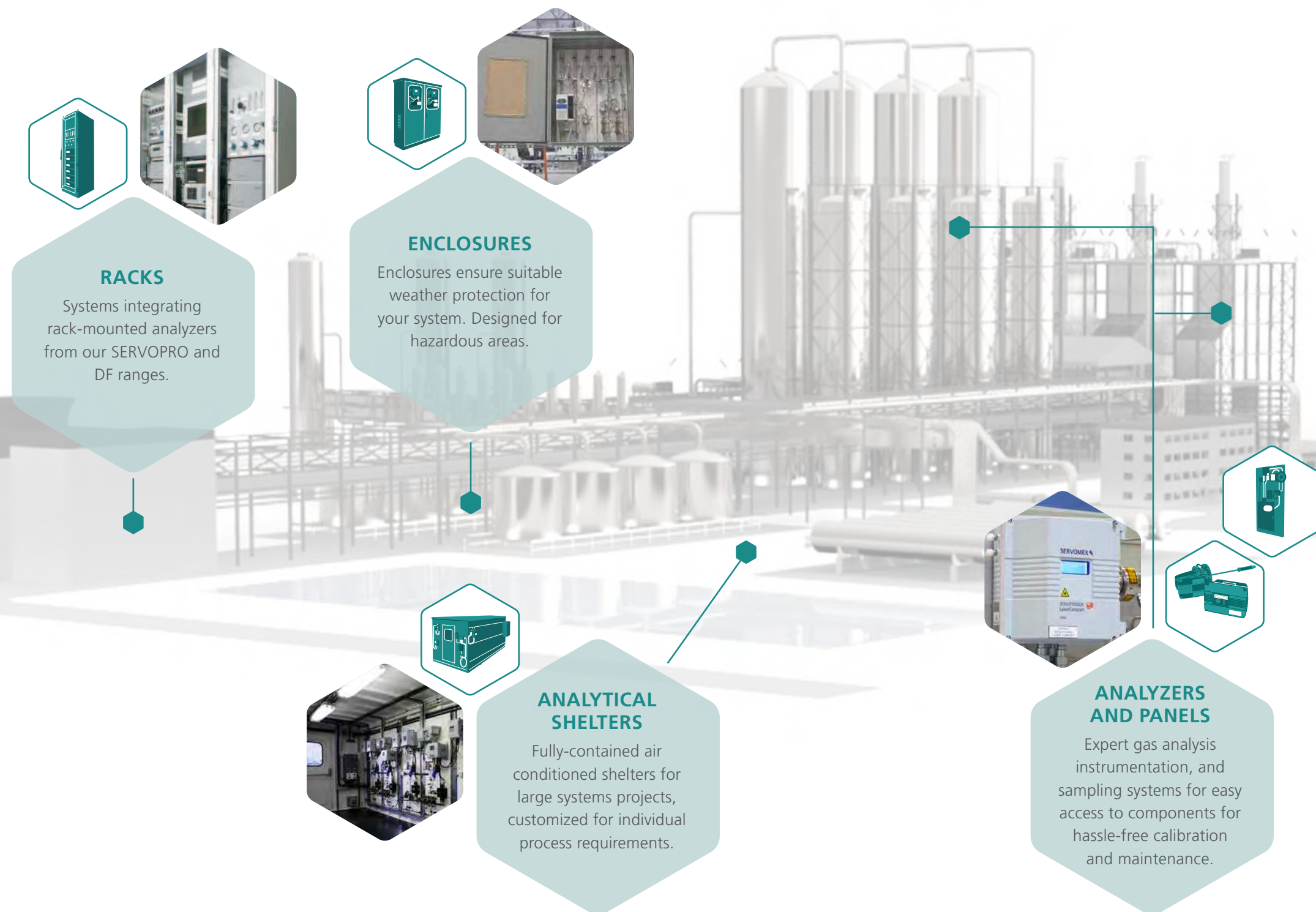
ULTIMATE
PROCESS
EFFICIENCY

4

REDUCED
COST OF
OWNERSHIP

DEEPER KNOWLEDGE OF YOUR INDUSTRY

We design and build scalable systems for safe or hazardous areas at any location of your plant. Ranging from single analyzers on panels to large shelters providing multiple sampling and analysis points throughout your process.



APPLICATIONS

- Purified Terephthalic Acid (PTA)
- Toluene Diisocyanate (TDI) Production
- Ethylene Oxide (EO)
- Ethylene Dichloride (EDC) / Vinyl Chloride Monomer (VCM)
- Vinyl Acetate Monomer (VAM)
- Chlorine Production
- Propylene Oxide (PO)
- Ethylene
- Caprolactam
- Hydrogen Peroxide
- Polyethylene / Polypropylene
- Electronic Gas Purity
- Semiconductor Wafer Manufacture

PROCESSES

- Fluid Catalytic Cracker Units
- Process Heaters
- Thermal Crackers
- Inerting
- Flare Stacks
- DeNO_x
- Medical Gases
- Air Separation

INTEGRATION WITHIN YOUR SYSTEMS

Our state-of-the-art systems are designed to meet all customer specifications, safety systems and area classification requirements. They can be built to operate effectively in the harshest environments.

THE TOTAL SOLUTION FOR YOUR APPLICATION AND PLANT SPECIFICATION.

Whatever your systems requirements, Servomex delivers. We have the capabilities to create solutions on any scale, designed to match your precise process requirements and to operate under the unique conditions of your site.

QUALITY COMPONENTS, QUALITY WORKMANSHIP

Our expertise means we understand what's required for your application. Working with you, we design and build systems that meet your exact needs, from purity monitoring in safe areas to multi-gas measurements sheltered from the most hazardous conditions.



NDIR ENCLOSURE

From the beginning of the project our team determines all pertinent information about your:

- Plant
- Process
- Application
- Sample point
- Environment
- Area classification
- Stream composition
- Measured components

This allows us to develop a system ideally suited to your unique process conditions.



RACKS



EXTRACTIVE OXYGEN SYSTEM PANEL



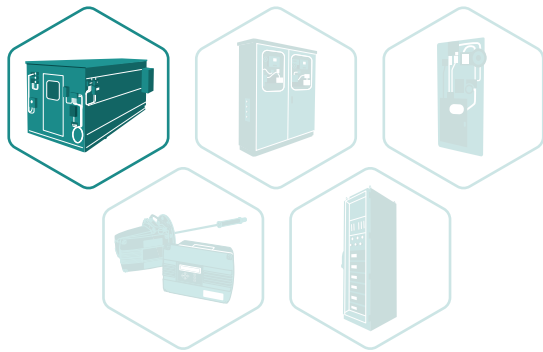
CEMS SHELTER



PROCESS ANALYZER HOUSE

SELF-CONTAINED PROCESS ANALYTICAL SHELTERS

Large systems projects can be engineered with custom-designed, air-conditioned shelters that meet your process requirements. They provide reliable protection for instrumentation and personnel alike.



OUR SHELTERS MEET INDUSTRY STANDARDS.

Our process analytical shelters can be made of fiber-reinforced plastic (FRP), galvanized steel or 304 stainless steel, as required by plant specifications.

Servomex is a certified Texas Department of Licensing and Regulation (TDLR) shelter manufacturer.



THE IDEAL SOLUTION FOR LARGE-SCALE PROJECTS

The perfect solution for locating numerous analyzers in a key plant location is a shelter.

The shelter designs include everything needed to ensure the analyzers' optimal performance.



- 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



SHELLEY MOORE
GLOBAL HEAD
OF SYSTEMS

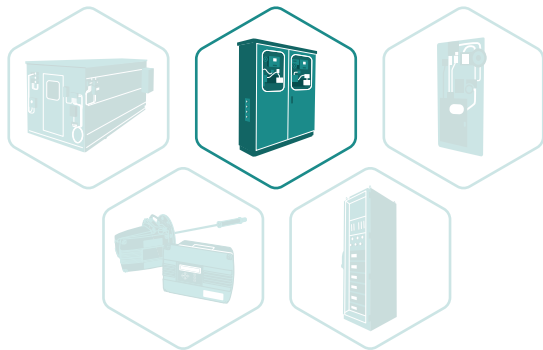


Servomex provides complete project management for your system, from initial consultation through to delivery, installation and beyond. You'll be working in partnership with the same dedicated experts across the lifetime of the project, with constant communication to ensure you get a system that's easy to use and meets all your analysis specifications.



SAFE AND SECURE ENCLOSURES

Our rugged enclosures provide complete protection and a long life for your system. Extractive sampling and a controlled environment ensure your measurements remain unaffected by the weather and other hazardous conditions.



ENCLOSURES ARE BUILT AND DESIGNED TO MEET CUSTOMER APPLICATION REQUIREMENTS.

Ensure reliable, continuous performance from your gas analysis – even in challenging environments. Our enclosures protect against the elements and harsh process conditions.



CONTROLLED CONDITIONS. RELIABLE PERFORMANCE.

Enclosures can be provided for ambient or high temperature applications. Our enclosed cabinets ensure analyzers and sampling systems remain unaffected by extreme temperatures or weather conditions.



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

SERVICE & SUPPORT



COMMISSIONING

OPTIMUM PERFORMANCE FROM DAY ONE



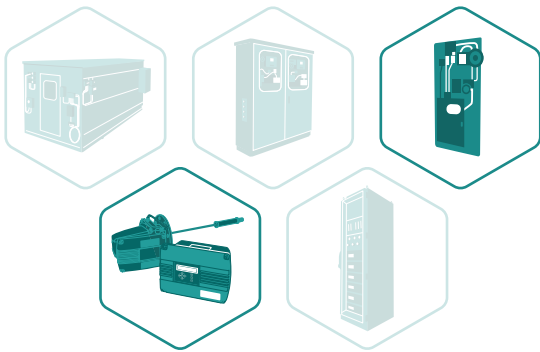
Our highly trained engineers can ensure your system is correctly installed and configured for optimum performance. This gives you peace of mind that your system delivers maximum accuracy, reliability and cost savings from day one.

MARK CALVERT
GLOBAL HEAD OF SERVICE



ANALYZERS AND PANELS

Open panels provide easy access for maintenance, calibration, and other routine servicing tasks. We deliver solutions for applications as diverse as combustion control, emissions monitoring, process optimization or medical gas purity.



EXPERT ENGINEERING. EASILY ACCESSIBLE.

Panel-based systems combine gas analysis and system sampling requirements in a design that makes it easy to reach components for calibration and maintenance.



RICHARD BOBECK
SYSTEM ENGINEERING
MANAGER



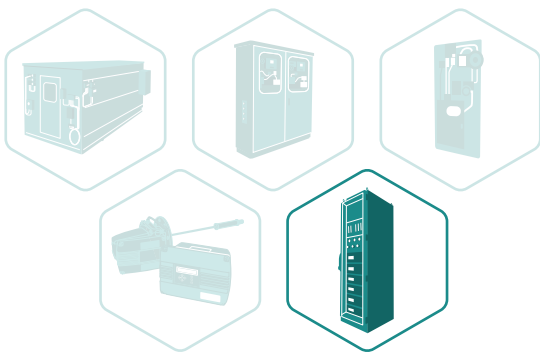
SENSING TECHNOLOGY



At Servomex, we understand how and when to use panels to provide remote mounting for your gas analysis system, so your personnel can work in a safer, more comfortable environment. We also know how to apply them when there are zoning considerations, enabling the analyzer to be 'de-rated' by removing it from a hazardous area.

SEAMLESS INTEGRATION RACKS

Configured to your specifications, our rack-mounted systems integrate multiple gas analyzers into a single cabinet. You get the blend of sensing technologies you need for process measurement and control.



MULTIPLE ANALYZERS. A SINGLE GOAL.

When it comes to purity control or emissions monitoring, the applications require the measurement of several gases. Our rack-based systems seamlessly combine and control an array of gas analysis solutions.



BUILT FOR YOUR PROCESS. DESIGNED FOR INTEGRATION.

Many of our SERVOPRO and DF gas analyzers are specifically designed to fit into rack systems, with all the connectivity a modern system needs.



- 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

CERTIFICATION & COMPLIANCE

Area classification and other compliances are among the design requirements we discuss with you at the outset. Whether you're upgrading existing operations or installing a new system for your process, we can ensure you get the best solution you need.

Many of our analyzers already comply with regulations such as ATEX and IEC, and have Safety Integrity Level (SIL) ratings, and we can build our systems to match.



To ensure full compatibility and optimum performance from the start, all our systems undergo full testing throughout the build process. This includes an internal system test of the final system, followed by a Factory Acceptance Test (FAT).

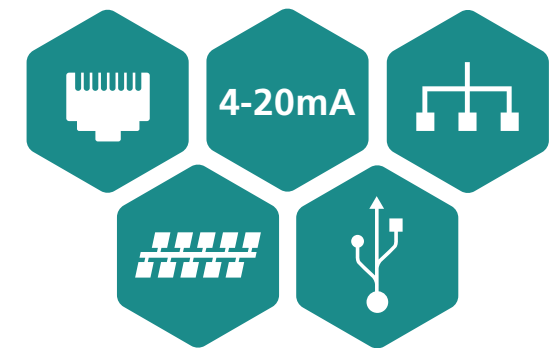
By the point of delivery and installation, you can be confident you're getting the system you expect, meeting all the process parameters, area classifications, regulatory compliances and other specifications established at the consultation stage.

INTERFACES AND CONNECTIVITY

Servomex analyzers can be configured with a range of digital and analog connectivity protocols, ensuring easy integration into systems and your own control networks.

BE SAFE AND EFFICIENT.

Integrated connectivity provides operational and cost benefits across multiple sites, using proven, industry-standard communications protocols.



INTEGRATION-READY GAS ANALYZERS.

Our next-generation SERVOPRO analyzers are fitted with advanced, accessible control protocols, for flexible systems connectivity that meets current and future integration challenges.

- Monitor output and control systems from a single point, either on-site or remotely
- Ethernet, PROFIBUS, Modbus and 4-20mA protocols available
- Field-proven connectivity protocols that are secure, resilient and trusted
- Oversee systems with a single standard PC setup



SERVOTOUGH HAZARDOUS AREA



SERVOPRO SAFE AREA



DF RANGE HIGH PURITY





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