

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Казань (843)206-01-48

Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
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Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
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Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81

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Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
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# Газоанализаторы (безопас. зона) SERVOMEX

# SERVOPRO MonoExact DF150E

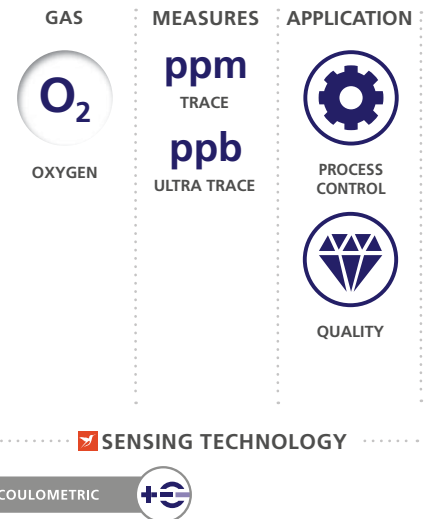
SAFE AREA



## THE NEXT STEP IN THE EVOLUTION OF OXYGEN ANALYZERS FOR INDUSTRIAL GAS APPLICATIONS

With a brand new digital, programmable touchscreen and easier navigation, the MonoExact DF150E combines the reliability of Servomex's tried and tested Coulometric oxygen sensor with a more user-friendly package.

- Advanced touchscreen GUI for intuitive hands-on setup and operation
- Back-compatible with DF-150E platform, including hardware wiring inputs and gas inlets
- Servomex proprietary software makes reporting and parameter control simple



# SERVOPRO MonoExact DF310E

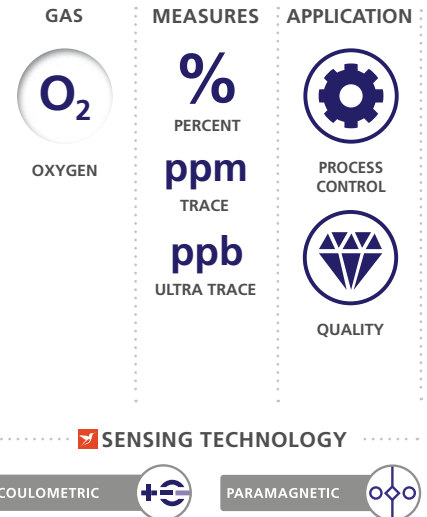
SAFE AREA



## NEXT-GENERATION DIGITAL OXYGEN ANALYZER DESIGNED FOR INDUSTRIAL GAS APPLICATIONS

Designed specifically to accurately measure oxygen in industrial gas applications, the MonoExact DF310E is a next-generation digital oxygen analyzer that combines precision trace-level measurement with new performance benefits and extended digital communications compatibility.

- Advanced touchscreen GUI for intuitive hands-on setup and operation
- Back-compatible with DF-310E platform, including hardware wiring inputs and gas inlets
- Field-proven Servomex Coulometric electrochemical performance and reliability



# SERVOPRO 4100

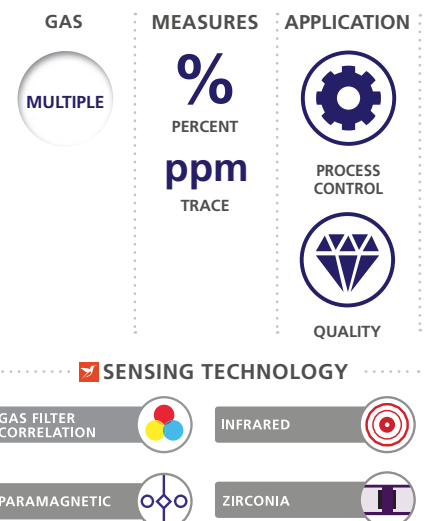
SAFE AREA



## ANALOG MULTIGAS ANALYZER OFFERING WIDE RANGE OF TRACE AND PERCENT MEASUREMENTS

Offering the capability of measuring  $CO$ ,  $CO_2$ ,  $N_2O$ ,  $CH_4$ ,  $O_2$  at trace levels and  $CO$ ,  $CO_2$  and  $CH_4$  at percent levels - as well as an  $O_2$  purity measurement - the flexibility of the SERVOPRO 4100 meets a wide range of process control and product qualification needs.

- FDA validated for medical oxygen and nitrogen production. European Pharmacopoeia compliant
- Simultaneous measurement of up to four gas streams
- Independent auto-calibration of all measurements with up to 8 isolated analog outputs and up to 12 relays with follow or freeze option



## SERVOPRO 4200/4210

SAFE AREA



### GAS ANALYZER SUITABLE FOR FLAMMABLE GAS MIXTURES

The SERVOPRO 4200/4210 multigas analyzer is designed to monitor flammable gas samples including H<sub>2</sub>/CO, 'HyCO' or 'Syngas' mixtures for trace level contaminants and percent level components. The 4200/4210 offers oxygen control using Servomex's unique Paramagnetic cell, trace level measurement of CO, CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> and percent levels of CO, CO<sub>2</sub>, CH<sub>4</sub> using photometric sensor technology.

- In compliance with Low Voltage, EMC and applicable Directives
- Measures up to four gases simultaneously
- RS232 / RS485 and Modbus communications

GAS



MULTIPLE

MEASURES

%  
PERCENT

ppm  
TRACE

APPLICATION



PROCESS  
CONTROL



QUALITY

#### SENSING TECHNOLOGY

GAS FILTER  
CORRELATION



INFRARED



PARAMAGNETIC



## SERVOPRO 4900

SAFE AREA



### CONTINUOUS EMISSIONS MONITORING (CEMS) ANALYSIS OF MULTIPLE FLUE GAS COMPONENTS

The SERVOPRO 4900 is specifically designed for Continuous Emissions Monitoring, where legislation requires the measurement of several gas components in flue gas. The 4900 offers multigas capability for pollutants, greenhouse gases and reference O<sub>2</sub>, including CO, CO<sub>2</sub>, NO, SO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O.

- MCERTS / TÜV approved measurements
- Low maintenance and cost of ownership
- Easy integration with other systems

GAS



MULTIPLE

MEASURES

%  
PERCENT

ppm  
TRACE

APPLICATION



EMISSIONS

#### SENSING TECHNOLOGY

GAS FILTER  
CORRELATION



INFRARED



PARAMAGNETIC



## SERVOPRO FID

SAFE AREA



### TRACE HYDROCARBON ANALYZER IDEAL FOR ASU SAFETY AND QUALITY CONTROL APPLICATIONS

A Flame Ionization Detector analyzer designed to assure safe operation for cryogenic air separation plants, the FID ensures the level of Total Hydrocarbons (THC) is maintained below flammable limits, as well as providing quality control in pure O<sub>2</sub>, N<sub>2</sub>, Ar, Air, He and CO<sub>2</sub>.

- 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 & sample for no dependency to atmospheric pressure variations and inlet pressure variation

GAS



TOTAL  
HYDROCARBONS

MEASURES

ppm  
TRACE

APPLICATION



SAFETY



QUALITY

#### SENSING TECHNOLOGY

FLAME IONISATION  
DETECTOR



## SERVOPRO Chroma

SAFE AREA



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

Offering a unique, non-depleting plasma emission detector, the Chroma (K4000) 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.

- PlasmaHC measurement system requires no FID for THC measurement
- Fully automated - tune to the application - system for unique simplicity of use
- Stand-alone systems requires no third-party software or computer to operate

GAS	MEASURES	APPLICATION
MULTIPLE	% PERCENT ppm TRACE ppb ULTRA TRACE	QUALITY PROCESS CONTROL

#### SENSING TECHNOLOGY

GAS CHROMATOGRAPHY	PLASMA
FLAME IONISATION DETECTOR	THERMAL CONDUCTIVITY

## SERVOPRO Plasma

SAFE AREA



### RELIABLE MONITORING OF NITROGEN IN ARGON AND HELIUM, OPTIMIZED FOR ASU PLANT OPERATIONS

Specifically designed for the continuous monitoring of N<sub>2</sub> in Ar or He or both, the Plasma's unique plasma emission detector provides an accurate, highly stable and reliable measurement ideal for the requirements of ASU plant operators.

- 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

GAS	MEASURES	APPLICATION
N <sub>2</sub> NITROGEN	ppm TRACE	QUALITY

#### SENSING TECHNOLOGY

PLASMA
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## SERVOPRO MultiExact 5400

SAFE AREA



### DIGITAL MULTIGAS ANALYZER, OPTIMIZED FOR WIDE RANGE OF ASU MEASUREMENTS

Combining industry-leading performance and a range of new and enhanced functions as standard, the MultiExact offers air separation plants a multigas analyzer specifically optimized to industry requirements - with GFx and Paramagnetic measurements now augmented by Servomex's revolutionary TCD measurement sensing technology.

- IEC 61010-1. European Pharmacopeia compliant. US Pharmacopeia compliant (O<sub>2</sub>). In compliance with Low Voltage, EMC and applicable Directives
- TruRef technology offers class leading measurements for Ar, He and N<sub>2</sub>
- Options include digital communication options, an integrated valve block function and unique Servomex Flowcube flow sensor technology

GAS	MEASURES	APPLICATION
MULTIPLE	% PERCENT ppm TRACE	PROCESS CONTROL QUALITY

#### SENSING TECHNOLOGY

GAS FILTER CORRELATION	ZIRCONIA
PARAMAGNETIC	THERMAL CONDUCTIVITY

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