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SERVOPRO MonoExact

SINGLE-MEASUREMENT DIGITAL GAS ANALYZER OPTIMIZED TO MEET THE PROCESS CONTROL AND PRODUCT QUALIFICATION NEEDS OF INDUSTRIAL GAS PRODUCERS AND CUSTOMERS



SERVOPRO MonoExact 🗔

The MonoExact is a compact, high performance analyzer, optimized to meet the specific needs of Industrial Gas producers who prefer single-measurement analysis solutions. The MonoExact offers class-leading measurements for Ar, He, N_2 and H_2 - and provided by Servomex's groundbreaking new TruRef Thermal Conductivity (TCD) sensing technology.

The MonoExact provides an enhanced-user experience with its easy set-up, intuitive use, flexible mounting options and broad range of digital communications protocols. It provides an attractive cost reduction through ongoing operational benefits like extended calibration, facilitated by its low-drift, high stability sensing and auto-validation/ calibration function.

FLEXIBLE

- Optimized for process control and product qualification applications
 Wide range of measurements
- includes He in N_2 , He in O_2 , H₂ in Ar, H₂ in N_2 , N₂ in Ar, N₂ in air, and Ar in O_2
- Flexible mounting: half 19" rack for benchtop use or in 19" panel (two devices can fit in one 19" panel slot)
- Communications include Modbus, Profibus and Ethernet protocols plus RS232/RS485 serial data output

Small and compact footprint for

Easy engineer-optimized set-up

Intuitive interface reduces training

easy integration

and installation

requirements

EASY TO USE

- Simple installation with intuitive and easy operation
- Integrated datalogging for alarm, fault and calibration history logs

LOW COST OF OWNERSHIP

- Reduced ongoing operational needs via auto-validation/
- calibration optionsExtended calibration periods
 - Extended calibration periods from ultra-stable TruRef TCD sensing technology

UNRIVALLED PERFORMANCE

- Uses industry-leading, patented TruRef (TCD) non-depleting technology for ultra-stable, accurate and selective measurements
- Manufactured by Servomex over 60 years' experience innovating and pioneering gas analysis and thousands of units used in the field every year

BENCHMARK COMPLIANCE

 In compliance with Low Voltage, EMC and applicable Directives

Learn more about the SERVOPRO MonoExact VISIT SERVOMEX.COM





PRODUCT OVERVIEW: MonoExact

HIGH PERFORMANCE ACCURACY

ASU operators requiring accurate process control and product qualification need analyzers that deliver the highest reliability and guaranteed measurement performance. You'll want a solution completely optimized to your application needs, with flexible communications, versatile features and low maintenance requirements. No matter your application requirements, you'll also want a device that delivers low cost-of-ownership across a long product lifetime. We don't believe you should compromise.

A NO COMPROMISE SOLUTION

The MonoExact is a no compromise solution, specifically innovated to address ASU applications where operators specify a single measurement solution - avoiding the loss of multiple measurements caused when multigas analyzers go offline. Simple to install, this compact, small footprint analyzer delivers the ultra-accurate, high reliability monitoring capability you demand. The MonoExact is easily customized to specific applications though a range of gas measurements, now augmented by patent TruRef TCD technology, the next-generation replacement for unreliable katharometer-based sensors.

SIMPLE MAINTENANCE AND REDUCED ONGOING COSTS

The MonoExact adds even more value by optimizing process efficiencies while reducing ongoing maintenance costs. An optional auto-validation/calibration card helps to permit simplified, remote device interaction, while high quality, non-depleting sensing technologies minimize calibration requirements through low-drift enhanced stability. Combined, the MonoExact is the analyzer that truly addresses ASU operator needs, providing the exact-fit analytical solution for a wide range of applications.

ALTERNATIVE PRODUCTS

The SERVOPRO and DF-SERIES product ranges feature a variety of analyzers designed to meet your application needs.



Delivering high performance monitoring across a range of gases, the MultiExact's dual measurement capability benefits from a choice of four leading-edge sensing technologies, including TruRef TCD sensors.



A Flame lonization Detector analyzer designed to assure safe operation for cryogenic Air Separation plants, the FID ensures THC levels are maintained below safe limits, as well as providing quality control in pure O₂, N₂, Ar, and Air.



The DF-310 series is a full-featured, microprocessor-based O_2 analyzer that uses unique, non-depleting coulometric E-sensor technology, enabling O_2 measurements at %, trace and ultra-trace levels.

KEY APPLICATIONS

- Validation on industrial processes
- Process control on air separation plants
- Bottling/filling plant applications

- Hydrogen purity
- Helium production

















PRODUCT DATA: MonoExact

OPTIONS	DESCRIPTION	SPECIFICATION			
Analog output	1 x mA output or 1 x Voltage output	Isolated 4-20mA/0-20mA Isolated 0-10v			
Output range	Analogs output parameters	User selectable over the measurement range			
Alarms and status relay cards	4 x volt free single pole relays	30V dc 1A. 4 x volt-free single pole relays (30V at 1A) for high alarm, low alarms, service in progress, maintenance required. NAMUR compliant			
Auto-validation / calibration card	Controls calibration gas and helps to facilitate simplified ongoing maintenance	3 volt-free single pole relays (30V at 1A) for sample stream, low cal gas, high cal gas. 3 colt-free switched inputs, closure to activate. Autoval/autocal configures: configures: initiate low cal, initiate high cal, initiate "service in progress"			
Sample system	Pressure driven or Flow driven	-			
Digital communications	Complete suite of options to suit site needs	Modbus (RS485) Profibus (RS485) Ethernet (Modbus TCP)			
Serial output	Continuous output	ASCII output on RS232			
Mounting	Benchtop, panel mount or rack mount	Half 19" rack for benchtop use or mount in a 19" panel. Two devices can fit in one 19" panel slot			
Power lead	3 options	Choose from UK, European or North American formats			

ACCESSORIES AVAILABLE FOR SPECIFIC APPLICATIONS - CONTACT YOUR LOCAL SERVOMEX BUSINESS CENTER

MONITORING PERFORMANCE

ACCESSORIES

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Gas	Ar in N ₂ , O ₂ or air	N ₂ in Ar	He in N_2	He in O ₂	H ₂ in Ar	H_2 in N_2	H ₂ in CO
Technology	Thermal conductivity (TCD)	Thermal conductivity (TCD)	Thermal conductivity (TCD)	Thermal conductivity (TCD)	Thermal conductivity (TCD)	Thermal conductivity (TCD)	Thermal conductivity (TCD)
Range	0-10%/ 20%/ 50%/ 100% 80%/90% - 100%	0-10%/ 20%/ 50%/ 100%	0-2%/ 5%/10%/ 20%/50%/ 100% and 80%/90% - 100%	0-2%/ 5%10%/ 20%/50%/ 100% and 80%/90% - 100%	0-20%	0-1%/ 2%/ 5%10%/ 20%/50% /100% and 90% - 100%	0-1%
Accuracy (intrinsic error)	<1% span	<1% span	<1% span	<1% span	<1% span	<1% span	<1% span
Repeatability	<0.5% span	<0.5% span	<0.5% span	<0.5% span	<0.5% span	<0.5% span	<0.5% span
Zero drift/week	1% FS/ month	1% FS/ month	1% FS/ month	1% FS/ month	1% FS/ month	1% FS/ month	1% FS/ month
T ₉₀ in secs @ 150ml/min	<15	<15	<15	<15	<15	<15	<15







PRODUCT DATA: MonoExact

SAMPLE FOR MEASUREMENTS

DEVICE SPECIFICATION

Sample gas	5°C - 45°C (41°F - 113°F)			
Vent	Vent to atmosphere			
Sample pressure	35 ±21kPa (5±3 psig)			

DEVICE SCHEMATIC

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Size:

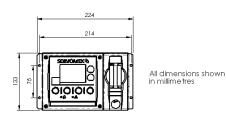
 230mm (9") Wide x 133mm (5.2") High x 478mm (18.8") Deep

Weight:

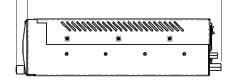
<7.5kgs</p>

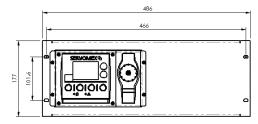
Certifications:

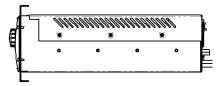
 In compliance with Low Voltage, EMC and applicable Directives



452.0 Mounting Interface to Standard Outlet Interface







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.

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