

# SERVOTOUGH OxyExact (2200)

## PROCESS OXYGEN ANALYSERS

for use on demanding process control applications, including safety critical, purity, feedstock clean-up measurements where high performance is critical

- Unrivalled accuracy, reliability and repeatability
- Low cost of long term ownership
- Up to six transmitters can be connected to a single control unit
- Hazardous area ATEX Zone 1, FM, CSA, TIIS, IECEx
- Transmitter interface software available
- Ethernet or RS485 digital communication options using Modbus




## SPECIFICATION

	TRANSMITTER	TRANSMITTER	CONTROL UNIT	CONTROL UNIT
TECHNOLOGY	Paramagnetic	Paramagnetic	-	-
Sample Gas Temperature :	60°C *	<110°C *		
Hazardous area:	ATEX Cat. 2 IECEX FM Class I Div. 1 CSA TIIS	ATEX Cat.2 IECEX FM Class I Div. 1 CSA	ATEX Cat.2 IECEX FM Class I Div.1 CSA TIIS	ATEX Cat.3 IECEX FM Class I Div.2 CSA
<b>PERFORMANCE</b>				
Maximum range:	0-100%	0-100%		
Minimum range:	0-0.5%	0-1%		
Intrinsic Error (accuracy):	<0.02% O <sub>2</sub>	<0.04% O <sub>2</sub>		
Linearity:	<0.01% O <sub>2</sub>	<0.02% O <sub>2</sub>		
Repeatability:	0.02%	0.03%		
Response time (T <sub>90</sub> ):	<4 seconds	<4 seconds		
Zero drift per week:	<0.02% O <sub>2</sub> /week	<0.08% O <sub>2</sub> /week		
Span drift per week:	<0.05% O <sub>2</sub> /week	<0.10% O <sub>2</sub> /week		


\* Temperature of operation: Consult Servomex for other temperatures

## Hazardous Area Approvals


### 2210 Control Unit

ATEX  II 3(I)GD EEx nCL ia IIC T4  
FM Class I, Division 2  
CSA Class I, Division 2  
IEC Ex


### 2213 Control Unit

ATEX  II 2(I)GD EEx d ia IIC T4  
FM Class I, Division 1  
CSA Class I  
TIIS  
IEC Ex

### 2223 Transmitter

ATEX  II 2(I)GD EEx iad IIC T4  
FM Class I, Division 1  
CSA Class I  
TIIS  
IEC x

### 2222 Transmitter

ATEX  II 2(I)GD EEx iad IIC T3  
FM Class I, Division 1  
CSA Class I  
IEC Ex

## EC Directive Compliance

### 2210/2213 Control Units & 2223 Transmitters

comply with the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (as amended by Directive 92/31/EEC), both as amended by Directive 93/68/EEC.

They conform to the following harmonised European standards for product safety and electromagnetic compatibility:

EN 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use.

EN 61326-1: Electrical equipment for measurement, control and laboratory use - EMC requirements (All induced errors are less than the intrinsic error).

These products are rated for "Installation Category II" in accordance with IEC 664.

These products are rated for "Pollution Degree 2" in accordance with IEC 664.

## EC Directive Compliance

### 2200H 110°C (2222) Transmitters

comply with the EMC Directive 89/336/EEC (as amended by Directive 92/31/EEC), as amended by Directive 93/68/EEC.

They conform to the following harmonised European standards for product safety and electromagnetic compatibility:

EN 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use.

EN 61326 1997 + A1: 1998 + A2: 2001: Electrical equipment for measurement, control and laboratory use - EMC requirements See manual for further information.

These products are rated for "Installation Category II" in accordance with IEC 664.

These products are rated for "Pollution Degree 2" in accordance with IEC 664.

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Servomex has a policy of constant product improvement and reserves the right to change specifications without notice.  
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