

SERVOMEX 2500 SERIES

PHOTOMETRIC PROCESS GAS ANALYSERS

offer single, dual or triple component gas analysis solutions to suit virtually any process, combustion or emissions gas analysis application.

SPECIALIST SOLUTIONS

- On-line, real time process analysis
- High reliability, accuracy and stability
- Low cost of ownership & long maintenance intervals
- Single & multi-component analysis capability
- Easy integration with DCS and other control systems
- Suitable for field mounting in hazardous area locations



SPECIFICATION

ANALYSER	2500	2510	2520	2550
	Infrared Process	GFC ⁺ Emissions	Soft UV Process	Multicomponent Infrared
PERFORMANCE				
Intrinsic error (accuracy):	<1% FS*	<1% FS*	<1% FS*	<1% FS*
Response time (T ₉₀):	11 sec [†]	11 sec [†]	11 sec [†]	11 sec [†]
Zero drift/week:	<1% FS	<1% FS	<1% FS	<1% FS
Repeatability:	0.5% FS	0.5% FS	0.5% FS	0.5% FS
Ambient temperature influence:	Less than 1% FS zero drift due to rate of ambient temperature change of 25°C/hr (45°F/hr) over a maximum of 25°C (45°F) change	3% FS per 10°C (18°F) change	Less than 1% FS zero drift due to rate of ambient temperature change of 25°C/hr (45°F/hr) over a maximum of 25°C (45°F) change	
PHYSICAL				
Dimensions (W x D x H):	max: 1620 x 284 x 500mm (63.7 x 11.2 x 20.0") (inc. allowance to open covers) min: 620 x 284 x 241mm (24.2 x 11.2 x 9.5")			
Weight:	from 27kg (55lbs)			
Ingress protection:	IP65/NEMA 4 (IP50 with electrical cell heater)			
Mounting:	Wall			

- * when used under reference conditions - an additional error of 3% FS may be observed at some frequencies under the influence of radiated RF (radio frequency) fields specified for industrial environments.
- † minimum, electronic only, excludes sampling.
- + gas filter correlation.

Operating Environment

Temperature:

Operating: 0°C to 55°C (32°F to 131°F)
(Heated cell >130°C: max 50°C (122°F))
Storage: -25°C to 70°C (-13°F to 158°F)

Relative Humidity:

0-95% RH, non-condensing

Warm Up Time:

Typically 2 - 10h, depending on application and environment

Rate of ambient temperature change:

<25°C/h (45°F/h)

Sample Gas

Temperature:

0-180°C (32-356°F)

Pressure:

0-150psig/0-10barg/0-1000kPag.

(For high pressure operation contact Servomex)

Flow Rate:

0.2-5.0 litres/min gas applications

0.3-1.0 litres/min liquid applications*

Sample Connection:

1/4" OD Tube

Sample Wetted Materials:

316 Stainless Steel, CaF₂, Viton (standard analysers only)

* Not available on 2550 analyser.

Hazardous Area Approval

2500EU1, 2510EU1, 2550EU1

ATEX: EEx p ia [ia] IIC T4 (heated cell)

Ex II 2 (1) G T5 (unheated cell)

2500EU2, 2510EU2, 2520EU2, 2550EU2

ATEX: EEx nCL IIC T4 (unheated cell)

Ex II 3 G (heated cells may be T3 or T4)

2500FM2, 2510FM2, 2520FM2, 2550FM2

FM (USA)

Class I, Div 2
Groups A, B, C & D T4
(unheated cell)
(heated cells may be T3 or T4)
Class I, Zone 2
Group IIC T4 (unheated cell)
(heated cells may be T3 or T4)

EC Directive Compliance

The 02500GEN, 02500EU1, 02500EU2, 02510GEN, 02510EU1, 02510EU2, 02520GEN, 02520EU2, 02550GEN, 02550EU1, 02550EU2 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:

EN61326: 1997 + A1:1998 + A2:2001

Electrical equipment for measurement, control and laboratory use - EMC requirements - see manual for further information.

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

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.

SERVOMEX COMPANIES, AGENTS AND REPRESENTATIVES ARE LOCATED THROUGHOUT THE WORLD. FOR YOUR NEAREST CONTACT VISIT WWW.SERVOMEX.COM

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



Certificate No. Q05166
BS EN ISO 9001



Certificate No. EMS82701
BS EN ISO 14001



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