

SERVOMEX 4900

EMISSIONS ANALYSER

is specifically designed to meet the gaseous emissions monitoring needs of combustion plant operators

- Multiple gas capability O₂, CO, CO₂, SO₂, NO & NO_x
- Easy integration with other systems
- Low maintenance and low cost of ownership
- Extremely stable and reliable sensors
- External input capability
- Serial comms: RS232/RS485, Modbus protocol
- TÜV and MCERTS approved, meets QAL1 performance (EN14181) on specific applications (when used with approved system)



SPECIFICATION

GAS MEASURED:	O ₂	CO	NO (NO _x) [†]	SO ₂	CO ₂
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PERFORMANCE

Technology:	Paramagnetic	Infrared	Infrared	Infrared	Infrared
Min. Range:	1%	50ppm/65mg/m ³	100ppm/130mg/m ³	100ppm/300mg/m ³	0.2%
Approved Range:	25%	60ppm/75mg/m ³	200ppm/268mg/m ³ **	200ppm/572mg/m ³	-
Accuracy(intrinsic error):	<0.05% O ₂	0.5ppm(v) CO*	2ppm(v) NO*	5ppm(v) SO ₂ *	<1% of selected range
Response time (T ₉₀):	<15sec	<30sec	<30sec	<30sec	<30sec
Detection limits:	0.1%	0.5ppm	2ppm	1ppm	0.1%

SIGNAL INPUTS/ OUTPUTS

Analogue Outputs:	Two Isolated 4-20mA/0-20mA as standard. Additional outputs may be added
Analogue Inputs:	Two non-isolated 4-20mA/0-20mA as standard
Analogue output range:	Freely selectable over the measurement range
Alarms:	Three volt-free single pole relays (264Vac or 30Vdc at 1.0A). Additional relays may be added
Serial Outputs:	Single ASCII data logging output (RS232). User configurable, 2400 to 19200 baud

PHYSICAL

Dimensions (W x D x H):	482.6mm (19") x 478mm (18.8") Short Chassis depth or 608mm (23.9") Long Chassis depth x 132.5mm (3U) nominal
Weight:	Typical 22kg (48.4lb)

Other measurements and ranges are available on request

* or <1% of reading, whichever is greater

** Approved for NO only

† Calculated from NO

The performance specification has been written, and verified, in accordance with the International standard IEC 1207-1:1994 "Expression of performance of gas analysers".

OPERATING ENVIRONMENT

Temperature:

Operating: 5°C to 45°C/41°F to 113°F
Storage: -20°C to 60°C/-4°F to 140°F

Atmospheric Pressure:

11 to 18psia/79 to 124 kPaa
(for operation up to 2000m altitude.)

Warm Up Time

typically 1 hour from ambient (20°C)

Relative Humidity:

10-90% RH, non-condensing

SAMPLE GAS

Maximum Temperature: 60°C

Dew Point: 5°C/9°F below minimum ambient

Condition: Oil free, non-corrosive, non-condensing, non-flammable

Particulates: <1µm

Pressure: Sample Pressure externally regulated to typically <1psig to provide specified flow rate.

Flow Rate: 500-1500ml/min.

Gas Connection: Inlet 1/8" NPT female
Outlet 1/4" NPT female

POWER SUPPLY

85 to 132Vac, 47 to 62Hz (350VA) maximum
170 to 264Vac, 47 to 62Hz (350VA) maximum

EC DIRECTIVE COMPLIANCE

The 4900 analyser complies 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.

It conforms 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).

This product is rated for "Installation Category II" in accordance with IEC 664.

This product is 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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