

SERVOMEX 1900IR

INFRARED ANALYZER

A robust, intrinsically safe instrument for use in areas at risk from explosive atmospheres

- Zone 1 hazardous area ATEX Cat 2
- Low material and running costs with no purge
- Easy to install and simple to use
- For use with flammable samples
- Solvent resistant version available *
- Typical applications include **
 - refineries
 - ethylene plants
 - natural gas
 - various petrochemical and chemical plants
 - HyCO



SPECIFICATION

GASES MEASURED	CO ₂ Standard	CO ₂ Solvent resistant	CO Standard	CH ₄ Standard
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TECHNOLOGY: Infrared

PERFORMANCE:

Ranges:	0-50%	✓			
	0-25%	✓			
	0-10%	✓	✓		
	0-5%	✓	✓	✓	✓
	0-2.5%	✓	✓		
	0-1%	✓	✓		

Accuracy (intrinsic error): <1% FSR

Response time (T₉₀): <10 seconds

Zero drift/week: <1% FSR

Repeatability: <1% FSR

Ambient temperature influence: <1% FSR per 18°F (10°C) change over a maximum change of 18°F (10°C) per hour

PHYSICAL:

Dimensions (W x D x H): 17.6" x 8.9" x 9.3" (447mm x 227mm x 235mm)


Weight: 57.3lbs to 86lbs (26Kg to 39Kg)

IP rating: IP65

* Solvent resistant versions are configured with stainless steel pipework. When selecting internal filter the appropriate seal will be applied.

** Consult with Servomex for application guidance. Background gas information will be required for specification.

Hazardous Area Approvals

ATEX:  II 2G, Ex ia d IIC T4 (+14°F < Ta <+122°F)
(-10°C < Ta <+50°C)

IECEX: Ex d ia IIC T4 (+14°F < Ta <+122°F)
(-10°C < Ta <+50°C)

EC Directive Compliance

The 1900IR complies with the following EC Directives:

Electromagnetic Compatibility Directive (89/336/EEC as amended by 92/31/EEC and 93/68/EEC)

ATEX Directive (94/9/EC)

Operating Environment

Temperature: Operating: +14°F to +122°F
(-10°C to +50°C)
Storage: +40°F to +140°F
(-20°C to +60°C)

Relative humidity: 0-95% RH, non-condensing

Warm up time: Typically <5 hours (at 68°F ambient (20°C))
depending on application and environment

Sample Gas

Clean, dry at ambient temperature and free from particulates <0.6µm

Dew point: 41°F (5°C) below ambient temperature
Pressure:[†] 0.3 - 0.4 KPa gauge (0.04 - 0.05 psig)
Flow rates:[†] Standard: 50 to 250ml/min
Optional bypass: 50 to 70 l/hr
(60 l/hr nominal)

Sample connection: 1/8" NPT female

Sample wetted materials for IR version only: 316 stainless steel, sapphire, gold, nickel, epoxy adhesive (EPO-TEK H72), Viton®

[†] The pressure and flow of sample gases must be externally regulated to meet the above requirements

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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