

IR-8400DOX

DIGITAL GAS ANALYZER

Reliable · Easy to Use · Accurate

IR-8400DOX Features:

- Oxygen analyzer
- Continuous emissions monitor (CEM)
- High reliability and low maintenance
- Explosion-proof enclosure
- NEMA 7 certified
- LCD display non-contact operation
- Automatic calibration (optional)
- Multiple sample stream monitoring (optional)



RELIABLE AND RUGGED CONTINUOUS EMISSIONS OXYGEN ANALYZER

The Infrared Industries IR-8400DOX is a CEM oxygen analyzer, capable of monitoring oxygen in a sample stream for extended periods of time. The IR-8400DOX Digital Oxygen Analyzer uses a paramagnetic or other sensors, based on your requirements and ranges.

The IR-8400DOX can measure Oxygen (O₂) from ppm levels to 100% concentrations, allowing you to target the oxygen concentration that best suits your application.

The IR-8400D analyzer is temperature and pressure compensated to achieve excellent long-term stability and negates the need for frequent calibrations. Built to withstand hostile temperature and weather environments, these analyzers come standard with an LCD display, an RS232 output, an analog output, and an isolated linear 4-20 mA current output.

State-of-the-Art Electronics

The IR-8400DOX is made with state-of-the-art electronics, which are housed in an explosion-proof enclosure. The analyzer is ruggedly built to withstand a long life, insensitive to shock and vibration.

Material

Compatibility is assured by using stainless steel, Teflon, Viton, and Kynar, and by selecting corrosion-resistant materials for seal and tubing components.

CUSTOMIZED APPLICATIONS

Have a unique application that consists of a different range of gas not currently detected in the IR-8400D? Call us today and we can build a tailor-made gas analyzer that detects the gas of your choice.

Temperature

Controlled long-term stability and accuracy are maximized and resistance to harsh environments is minimized with the use of temperature-stabilized optical bench and electronics.

An enhanced temperature controller system allows the IR-8400DOX to accurately measure down to single parts per million (ppm) increments and stabilize temperatures within half a degree.

Automatic Calibration

An operator can select dates and times that the IR-8400DOX will automatically perform its own routine calibrations and update itself without any operator assistance.

Company Overview

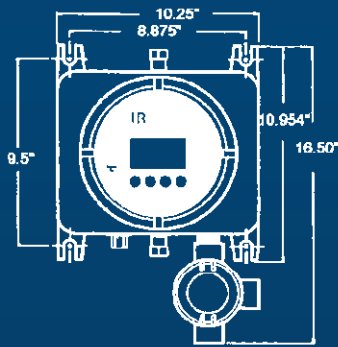
Infrared Industries has been a leading developer and producer of state-of-the-art gas analyzers instrumentation since 1969.

APPLICATIONS

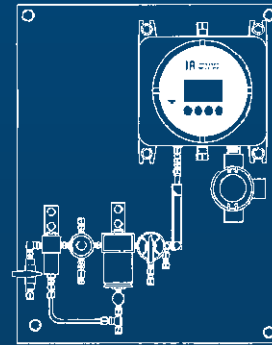
- Continuous emissions monitoring
- Combustion monitoring for boilers and furnaces
- Monitoring atmospheres in heat treated and annealing furnaces and process stream control
- Landfill methane recovery
- Iron and steel
- Electric power
- Oil and petrochemicals
- Ceramics, pulp and paper, food, and textiles
- Vapor recovery
- Refinery gas

IR-8400DOX DIGITAL GAS ANALYZER

IR-8400DOX DIMENSIONS AND SIDE VIEW



IR-8400DOX GAS ANALYZER WITH IR-1150 SAMPLING CONDITIONER SYSTEM



SPECIFICATION	VALUE
Performance measurement range	Based on application
Accuracy	Less than 1% of full scale (based on user specification)
Repeatability	Less than 1% of full scale over 24 hours
Stability	Dependent on user specifications
Output noise (RMS)	Dependent on user specifications
Response time	Dependent on user specifications
Warm-up time	Dependent on user specifications
Temperature range	Dependent on user specifications
GAS SAMPLE REQUIREMENTS	
Flow rate	2 scfh (1 LPM) - recommended 4 scfh (2 LPM) - maximum
Moisture	0-99% non-condensing
OUTPUTS	
Analog	0 to 100 mV standard 0 to 1V, 0 to 5V (optional) 4 to 20 mA (isolated)
Digital	RS232 bi-directional
Alarms	Zero signal fault indication
GAS FLOW SYSTEMS	
Connections	Sample inlet - 1/4" compression fitting Sample outlet - 3/8" or 1/4" compression fitting
Materials	316 SS, sapphire, Teflon, Viton, Kynar, Polypropylene (typical)
Standard gas	Oxygen - 0-10,000 ppm
Power	90-260 VAC maximum, 117 Vrms \pm 10%, 50-60 Hz 12, 24, or 36 VDC (optional)
Enclosure (W x L x D)	10.25" x 10.25" x 9" (26 cm x 26 cm x 22.86 cm) enclosure with display window and attached 3.5" x 2.5" junction box NEMA 7 (C: Group D, E Div 1, 2)
Weight	25 lbs. (11.35 kg)
Warranty	One year standard; Extended warranty optionally available