



## MIRAN SapphIRe

Use of infrared spectroscopy provides the MIRAN SapphIRe Analyzers with the unique ability to specifically and accurately measure many gases with a single unit.

The MIRAN SapphIRe Series of Ambient Air Analyzers is the most versatile gas detection system on the market today. The Analyzer's wavelength generator has a unique design that allows accurate and fast wavelength selection. This feature alone separates the MIRAN SapphIRe Analyzer from other gas analyzers.

The MIRAN SapphIRe Analyzer is available in three models with gas calibrations from one to over 100 gases. Any model can be easily upgraded to another model in the series, allowing you to economically meet both current requirements and future increased needs.

The MIRAN SapphIRe has the ability to identify unknown airborne compounds using the ThermoMatch software option. Designed with the needs of the industrial hygienist and emergency response community in mind, the analyzer can be brought to the incident resulting in quicker corrective action and less money expended on "blank" samples being analyzed at a lab.

### **Features**

- Easy to use
  - Selective
  - Sensitive for sub-ppm detection
  - Versatile and easily upgraded
  - Lightweight and portable
-

## Applications

### Industrial Hygiene

Real-time detection of vapors in job environments promotes safe work habits. MIRAN SapphIRE analyzers monitor at typical government-regulated levels.

### Indoor Air Quality Studies

The MIRAN SapphIRE makes precise spot measurements for compounds such as CO<sub>2</sub>, CO, formaldehyde, or organic vapors.

### Fume Hood/Tracer Gas Analysis

### Emergency Response Analysis

The MIRAN SapphIRE assists emergency response personnel in qualifying hazardous spills and emissions.

### Waste Anesthetic Gases

Service technicians can identify leaks on anesthetic delivery systems by using the MIRAN SapphIRE Ambient Air Analyzer as a part of Preventative Maintenance (PM) work.

### Leak Detection for process maintenance

Using a leak detection probe, you can set up the MIRAN SapphIRE to check for leaks around many types of process equipment.

Readout	8 line x 40 character LCD
Response Time	18 seconds to 90% of final reading
Pathlength	0.5 m to 12.5 m
Sample Cell Volume	2.23 liters
Battery	Internal, rechargeable NiCd. 7.2V nominal; 5.7 Ah Capacity. Discharge time 4 hours; Recharge time 4 to 6 hours
Output	0-1Vdc, Parallel, Serial
Output	0-1Vdc, Parallel, Serial
Dimensions	21.8" (W) x 14.4" (H) x 7.6" (D); 553mm (W) x 365mm (H) x 193mm (D)
Mass	24 lbs (10 kg)
Intrinsic Safety	User specified models are certified for CENELEC, Groups IIC, Zone 1 and 2
Certifications	ETL (Class I, Div 1, Groups B, C, & D, Temperature Class T4); ETL-C (Class I, Div. 1, Groups, B, C, & D, Temperature Class T4); CENELEC (EEx ib d IIB + H2 T4)

---

## MIRAN SapphIRE XL

The MIRAN SapphIRE XL. Offers optimal measurement capabilities for high-end users who need to measure a wide variety or mixed atmosphere of gases.

- Contains over 120 single gas applications with customization capability
- Ideal for consultants, industrial hygienists, regulatory agencies, research scientists, and emergency response professionals

## MIRAN SapphIRE SL

The MIRAN SapphIRE SL Provides flexibility for users who perform similar measurements on a routine basis.

- Contains over 50 single gas applications with customization capability.
- Popular with indoor air quality specialists and anesthetic gas monitoring technicians

## **MIRAN SapphIRe DL**

The MIRAN SapphIRe DL is designed for users who regularly encounter a limited number of air monitoring applications.

- Features quick and easy operation for enforcement agencies and specified compound measurement projects.
-