



**GENERAL MONITORS**  
Protection for life.

## MODEL IR2100

Infrared Point Detector for  
Hydrocarbon Gas Detection



### Features

- No Routine Calibration Required
- True Fail-to-Safe Operation – does not employ a sintered flame arrester which can become clogged
- 4-20mA Output
- MODBUS Communications Link
- Heated Optics
- Dirty Optics Indication

### Benefits

- Low maintenance
- True gas detection performance
- Industry standard output for remote alarm and fault indication
- Two-way addressable communications for status and alarm information
- Eliminates condensation
- Discriminates between true fault and cleaning requirements

### Description

The General Monitors Model IR2100 Infrared Point Detector is a microprocessor-based hydrocarbon gas detector that continuously monitors combustible gases and vapors within the lower explosive limit (LEL) and provides alarm indication.

The Model IR2100 detection principle is based on measuring the absorption of infrared radiation passing through a volume of gas using a dual beam, single detector method. The IR detector measures the intensity of two specific wavelengths, one at an absorption wavelength and another outside of the absorption wavelength. The gas concentration is determined by a comparison of these two values.

All of the IR2100's electronics are contained within an explosion-proof housing so that detector information can be processed at the detector site. The IR2100 provides a 4-20mA signal that is proportional to 0 to 100% LEL gas concentration at the detector. The IR2100 also provides a MODBUS addressable communications interface. Up to 128 IR2100's can be connected on a MODBUS network without the need for repeaters. The MODBUS output provides status, alarm, fault and other information regarding operation, troubleshooting or programming of the unit.

The IR2100 Infrared Point Detector is available in either an aluminum or stainless steel housing and is rated for use in Class I, Div 1, Groups B, C & D areas and CENELEC Zone 1 & 2.

### Applications

- Refineries
- Drilling and Production Platforms
- Fuel Loading Facilities
- Compressor Stations
- Oil Well Logging
- LNG/LPG Processing and Storage Facilities
- Wastewater Treatment Facilities
- Gas Turbines
- Solvent Vapors
- Chemical Plants

# General Monitors Ir2100 Manual

**Jin-Ying Zhang**



## **General Monitors Ir2100 Manual:**

The book delves into General Monitors Ir2100 Manual. General Monitors Ir2100 Manual is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into General Monitors Ir2100 Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to General Monitors Ir2100 Manual
  - Chapter 2: Essential Elements of General Monitors Ir2100 Manual
  - Chapter 3: General Monitors Ir2100 Manual in Everyday Life
  - Chapter 4: General Monitors Ir2100 Manual in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of General Monitors Ir2100 Manual. This chapter will explore what General Monitors Ir2100 Manual is, why General Monitors Ir2100 Manual is vital, and how to effectively learn about General Monitors Ir2100 Manual.
3. In chapter 2, the author will delve into the foundational concepts of General Monitors Ir2100 Manual. This chapter will elucidate the essential principles that must be understood to grasp General Monitors Ir2100 Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of General Monitors Ir2100 Manual in daily life. This chapter will showcase real-world examples of how General Monitors Ir2100 Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of General Monitors Ir2100 Manual in specific contexts. The fourth chapter will explore how General Monitors Ir2100 Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about General Monitors Ir2100 Manual. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of General Monitors Ir2100 Manual.

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