



# SINGLE POINT STAND ALONE MONITOR

Gas Detection For Life

PS 2 Model



## Features

- LEL or PPM detection ranges available for many gases
- 2 alarm levels
- Stand alone system
- Input voltages: 115 VAC standard, 24 VDC or 48 VDC (optional)
- Audible and visual alarms
- Compact design
- Simple installation
- AC version equipped with power cord
- Relay contacts rated 12A @ 115 VAC
- Low maintenance

## Industry Applications

- Petrochemical plants
- Refineries
- Water & wastewater treatment plants
- Degreasers
- Gas, telephone, & electric utilities
- Battery storage locations
- Parking garages
- Manufacturing facilities
- Steel
- Automotive
- HVAC

A perfect solution for parking garage systems, hydrogen detection in battery rooms, or for the detection of a variety of solvent vapors in general industry.

The Model PS 2 is a multipurpose gas monitor utilizing a MOS (metal oxide sensor) for long lasting and low maintenance detection at the LEL or PPM levels of many gases or vapors. The PS 2 has two alarm levels for increasing gas or vapor levels. Typical alarms are at the PPM level and are available for many solvent vapors; inquire at factory for your specific requirement. Each alarm level activates a 12 amp relay inside the unit, and terminals are provided for wiring the relay to activate an external alarming device or activate some other device such as a ventilation fan.

This stand alone unit is housed in a durable plastic enclosure with flanges provided for wall mounting and is designed with easy access wiring hubs on the bottom of the unit. The front of the PS 2 contains three lights; Pilot, Alarm 1, and Alarm 2. An internal audible alarm (85 db) is also built in which activates in a gas alarm condition.

The standard PS 2 is supplied with the gas sensor located on the end of a 30 foot cable (other cable distances are also available). Each unit is powered by 115 VAC standard or 24 VDC as standard (48 VDC versions optional), and the AC version comes complete with a 6' power cord.

## Outputs

**Relays** 12 amps for each alarm

**Audible** 85 db alarm at 10 cm

**Visual** Alarm 1: Orange LED  
Alarm 2: Red LED

## Environmental

**Operating Temp** 35°F to 120°F (2°C to 49°C)

**Relative Humidity** 10 - 95% RH, non condensing

## Detectable Gases

The PS 2 uses a Metal Oxide Semiconductor (MOS) type sensor for the detection of gases and vapors. This MOS sensor is known for its very long life and truly low maintenance requirements. The PS 2 and its MOS sensor effectively respond to a wide variety of hydrocarbons and other gases or vapors. Alarms can be set for OSHA established TLV levels for many gases or solvent vapors, and at LEL levels for flammable vapor warnings.

Since the PS 2 sensor is a general hydrocarbon sensor, it is not specific for any particular gas. This instrument will perform best if used in an area where the only gas or vapor present, besides fresh air, is the gas or vapor that you wish to detect. If used in an area contaminated with many different gases or vapors, false alarms may occur. Please carefully evaluate the application and the area to ensure that no interfering gases are present.

The PS 2 is an effective solution for Carbon Monoxide monitoring in parking garages, solvent vapor monitoring around degreasers or other processes, hydrogen monitoring in battery rooms, natural gas detection in basements around landfills, and many others. Please consult the factory for practical alarm points for your application.

### Partial List Of Detectable Gases

Many other gases or ranges available. Contact RKI for gases or ranges not listed

Acetylene	C <sub>2</sub> H <sub>2</sub>	Ethylene	C <sub>2</sub> H <sub>4</sub>	Methylene Chloride	CH <sub>2</sub> Cl <sub>2</sub>
Acrylonitrile	CH <sub>2</sub> CHCN	Ethyl Ether	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	Perchloroethylene	CCl <sub>2</sub> CCl <sub>2</sub>
Butane	C <sub>4</sub> H <sub>10</sub>	Gasoline	C <sub>n</sub> H <sub>m</sub>	Propane	C <sub>3</sub> H <sub>8</sub>
Butylene	C <sub>4</sub> H <sub>8</sub>	Hexane	C <sub>6</sub> H <sub>14</sub>	Propylene	C <sub>3</sub> H <sub>6</sub>
Carbon Monoxide	CO	Hydrogen	H <sub>2</sub>	Propylene Oxide	C <sub>3</sub> H <sub>6</sub> O
Cyclohexane	C <sub>6</sub> H <sub>12</sub>	Iso-Butane	i-C <sub>4</sub> H <sub>10</sub>	Toluene	C <sub>7</sub> H <sub>8</sub>
Ethane	C <sub>2</sub> H <sub>6</sub>	Isopropyl Alcohol	(CH <sub>3</sub> ) <sub>2</sub> CHOH	Trichloroethane	ClCH <sub>2</sub> CHCl <sub>2</sub>
Ethyl Alcohol	C <sub>2</sub> H <sub>5</sub> OH	Methane	CH <sub>4</sub>	Xylene	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>

Specifications subject to change without notice.

Made in the USA

## RKI Instruments, Inc.



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## Authorized Distributor:

## Physical

**Dimensions** Height: 6.85" 174 mm  
Width: 6.48" 165 mm  
Depth: 3.30" 84 mm

**Enclosure** ABS plastic, indoor housing

## Sensors

**Sensor Types** Metal Oxide (MOS / Semiconductor type)

**Measuring Ranges** LEL or PPM levels available for many gases.

**Sensor Connector** Sensor is connected to 30' extension cable wired to terminals inside unit. Cable length can be decreased or increased as needed.

## Power

115 VAC or 24 VDC  
48 VDC (option)

## Warranty

Two years materials and workmanship.