

Model PS2

SINGLE POINT STAND ALONE MONITOR

Description

A perfect low cost solution for hydrogen detection in battery rooms, or for LEL level detection of a variety of flammable or solvent vapors in general industry. The Model PS2 is a multipurpose gas monitor utilizing a Metal Oxide Semiconductor (MOS) sensor for long lasting and low maintenance detection at the LEL levels of many gases or vapors. The PS2 has two alarm levels for increasing gas or vapor levels for LEL level detection of flammable vapors. Inquire at the 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 alarm device or 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 PS2 contains three lights; Pilot, Alarm 1, and Alarm 2. An internal audible alarm (85 db) activates in a gas alarm condition.

The standard PS2 is supplied with the gas sensor located on the end of a 30 foot cable. Each unit is powered by 115 VAC standard (24 VDC and 48 VDC versions optional), and the AC version comes complete with a 6' power cord.

Features

- LEL 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
- 1 year warranty



Industry Applications

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



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Outputs

- Relays: 12 amp rated contacts for each alarm
- Audible: 85 db alarm at 10 cm
- Visual Alarm 1: Orange LED
- Alarm 2: Red LED

Physical

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

Enclosure

- ABS plastic, indoor housing

Environmental

- Operating Temp: 35°F to 120°F (2°C to 49°C)
- Relative Humidity: 10 - 95% RH, non condensing

Sensor

- Sensor Type: Metal Oxide Semiconductor
- Measuring Ranges: LEL levels available for many gases.
- Sensor Connector: Sensor is connected to 30' extension cable wired to terminals inside unit.

Power

- 115 VAC
- 24 VDC and 48 VDC optional

Warranty

- One year materials and workmanship

Ordering Information

Model No.	Description
PS2-LEL-XX	LEL detection, 115 VAC

Replace "XX" in part number with target gas number.

PS2 Replacement Sensors

Model No.	Description
62-0010RK	Sensor assembly for PS2, LEL, with 30' cable

Detectable Gases

The PS2 uses a 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 PS2 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 PS2 sensor is a general hydrocarbon sensor, it is not specific to 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 the sensor is calibrated to. 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 PS2 is an effective solution for 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 available. Contact MATHESON for gases not listed.

Target Gas	Gas Number
Ethyl Alcohol (C ₂ H ₅ OH)	01
Gasoline	02
Hexane (C ₆ H ₁₄)	03
Hydrogen (H ₂)	04
Iso-Butane (i-C ₄ H ₁₀)	05
Isopropyl Alcohol ((CH ₃) ₂ CHOH)	06
Methane (CH ₄)	07
Methylene Chloride (CH ₂ Cl ₂)	08
Perchloroethylene (CCl ₂ CCl ₂)	09
Toluene (C ₇ H ₈)	10
Trichloroethane (ClCH ₂ CHCl ₂)	11
Xylene (C ₆ H ₄ (CH ₃) ₂)	12

