



MSA  
**STELLAR® Series**  
Gas Detection Instruments



## PULSAR® Maintenance-Free Single-Gas Detector

[ Reliable, easy to use and durable ]

**MSA**

**PULSAR®**  
Single-Gas Detector

**For more than 85 years, MSA has brought you the leading gas detection instruments on the market. Now, MSA introduces its latest product innovation: The PULSAR Single-Gas Detector—a low-cost, high-performance, maintenance-free portable instrument that’s even better than before. All Pulsar models offer superior RFI performance and feature audible alarms enhanced to a 90 db level. Oxygen models’ improved sensor has a faster response time and displays numeric concentration readings. New H<sub>2</sub>S and CO versions are now available featuring more choices of alarm setpoints to cover virtually all applications.**

The PULSAR Single-Gas Detector is reliable, easy to use and durable with a service life of 24 months. With sensor options for CO, H<sub>2</sub>S or O<sub>2</sub>, this unit will provide maintenance-free performance and stand up to the roughest handling in even the toughest industrial environments.

The PULSAR Single-Gas Detector is designed and built with the high quality you expect from MSA and is part of the MSA STELLAR Series of gas-detection instruments which features a selection of single and multigas instruments.

The PULSAR Single-Gas Detector is ideal for the following uses:

Hazards	Industries
Carbon Monoxide	Oil & Gas
Hydrogen Sulfide	Chemical
Oxygen Deficiency	Construction
Confined Spaces	Utilities
	Fire Service
	Various Industrial Applications

Just look at the industry-leading combination of features built into the PULSAR Single-Gas Detector:

### Maintenance-Free Service Life

This factory-calibrated detector provides a two-year service life with **no** maintenance. No calibration is needed. With its built-in gas-delivery adapter, no easy-to-misplace accessories are needed to conduct gas-response tests.

### Clip Options



Because the sensor and flashing alarms are located near the top of the unit, and with its ultra-thin profile, users can wear the PULSAR Single-Gas Detector inside the pocket without affecting performance, as well outside the pocket, on the helmet or on the belt...lots of choices. With options for spring or suspension clips, MSA’s unique clip design keeps the unit attached during even the roughest use.

### Innovative Sensors



Patented, MSA-built Button™ toxic gas sensors feature stainless steel construction and contain solid electrolyte, eliminating the possibility of sensor leakage. The extremely small, thin sensor profile allows the PULSAR Single-Gas Detector to deliver high performance in a very small package. These toxic gas sensors ensure stability and will far outlast the 24-month service life of the unit. The Pulsar oxygen sensor has been redesigned to accommodate the 20 Series oxygen sensor and is UL, cUL, and ATEX approved. The oxygen Pulsar now also shows the actual oxygen concentration on the unit’s display.

## Long-Life Battery

The long-life lithium battery offers 33% more capacity than the competition and can meet a specification of two minutes of alarm mode per day. No other maintenance-free single-gas detector in its class can beat this performance.

## Easy-To-Read Display



The PULSAR Single-Gas Detector offers the simplest, easiest-to-read display. Its large numeric display—with characters 4x as large as the closest competitor—allows users to count down service life

from 24 months with accuracy and confidence. The display on the H<sub>2</sub>S versions of the instrument helps the user to identify peak hydrogen sulfide concentration levels at a glance. Users can reset the peak reading with the touch of a button.

## Water & Dust Resistance



Designed to meet IP54 rating, the PULSAR Single-Gas Detector is highly water and dust resistant. The simple yet effective design features an interlocking

single-gasket suspension system, providing a tight seal and making it the most water- and dust-resistant instrument in its class.

## Distinctive Alarm System



A triple alarm system leaves no doubt for the user in an alarm situation. The audio alarm is loud at 90+ db and designed not to be confused with other workplace sounds.

It also features an extended frequency range covering a wide spectrum of sound to help ensure proper usage—even by tone-deaf individuals. The visual alarm features dual, super-bright LED displays located on the top of the instrument so it can be seen from all angles and when worn inside the pocket. The numeric display shows “LO” or “HI” alarm status. An optional vibrating alarm emits a pulsing vibration that further calls attention to the user when in alarm mode.

## Durability

Designed to withstand even the harshest conditions and usage, the PULSAR Single-Gas Detector is designed to withstand a 6-foot drop test. The same gasket that provides water resistance also absorbs some of the shock when dropped. Its solid-state circuitry and rugged case design increases impact resistance and minimizes the chance for breakage.

**The unique design of the PULSAR Single-Gas Detector, combined with its competitive price, makes it the clear choice when selecting two-year, maintenance-free single-gas instruments. And the PULSAR Single-Gas Detector is designed and manufactured by MSA, the most trusted name in the safety products industry.**

# PULSAR Single-Gas Detector

Select instrument options and mark them in the boxes to the right.

1 Instrument Type	
1 = CO without vibrating alarm	selection
2 = CO with vibrating alarm	
3 = H <sub>2</sub> S without vibrating alarm	
4 = H <sub>2</sub> S with vibrating alarm	
5 = O <sub>2</sub> without vibrating alarm	
6 = O <sub>2</sub> with vibrating alarm	

2 Alarm Setpoints		
A = CO 25 ppm & 100 ppm	selection	
B = CO 30 ppm & 60 ppm		
C = CO 35 ppm & 100 ppm		
D = CO 35 ppm & 400 ppm		
E = CO 50 ppm & 200 ppm		
F = CO 100 ppm & 300 ppm		
G = CO 150 ppm & 200 ppm		
H = CO 25 ppm & 50 ppm		
I = CO 35 ppm & 70 ppm		
<hr/>		
L = H <sub>2</sub> S 10 ppm & 15 ppm		
M = H <sub>2</sub> S 10 ppm & 20 ppm		
N = H <sub>2</sub> S 10 ppm & 25 ppm		
O = H <sub>2</sub> S 15 ppm & 25 ppm		
P = H <sub>2</sub> S 5 ppm & 10 ppm		
Q = H <sub>2</sub> S 7 ppm & 12 ppm		
R = H <sub>2</sub> S 8 ppm & 12 ppm		
S = H <sub>2</sub> S 7 ppm & 14 ppm		
<hr/>		
W = O <sub>2</sub> 19.5% & 18.0%		
X = O <sub>2</sub> 22.5% & 19.5%		

## Your Model Part Number

Please write in numbers and letters from selections above in appropriate boxes and contact your Safety Products Distributor to place your order.

**A-PULSAR-**  **1** -  **2**

**Note:** This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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