



MSA  
**STELLAR® Series**  
Gas Detection Instruments



# PULSAR™+ Single-Gas Detector

[ Reliable, easy to use and durable ]



**PULSAR™+**  
Single-Gas Detector

**For more than 85 years, MSA has brought you the leading gas detection instruments on the market. The new PULSAR<sup>+</sup> Single-Gas Detector just set a new standard for single-gas detection by adding a gas-concentration display and a replaceable sensor and battery to a proven performer—the PULSAR™ Maintenance-Free Detector.**

The PULSAR<sup>+</sup> Single-Gas Detector is reliable, easy to use, and durable. With sensor options for CO, H<sub>2</sub>S and O<sub>2</sub>, this unit will provide industry-leading performance and stand up to the roughest handling in the toughest industrial environments.

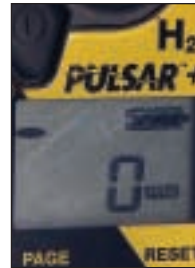
The PULSAR<sup>+</sup> Single-Gas Detector is designed and built with the high quality you expect from MSA. It is part of the MSA STELLAR® Series of gas-detection instruments, which features a selection of single-gas, combustible-gas and multigas instruments.

The PULSAR<sup>+</sup> Single-Gas Detector is ideal for the following uses:

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

Just look at the industry-leading combination of features built into the PULSAR<sup>+</sup> Single-Gas Detector:

### Easy-to-Read Display



The PULSAR<sup>+</sup> Single-Gas Detector offers the simplest, easiest-to-read display. Its large numeric display—one of the largest on the market—features a backlight that provides excellent contrast. The easy-to-understand display icons help the user to easily identify STEL, TWA and peak gas concentration levels at a glance.

### One-Button Autocalibration



Intuitive, completely automatic calibration with the press of a button helps to prevent improper calibration. No separate, easy-to-lose accessories are needed for gas-response testing or instrument calibration. Simply attach the tubing to the sensor inlet and apply gas.

### Distinctive Alarm System



A triple alarm system leaves no doubt for the user in an alarm situation. The *audio alarm* is piercing and distinctive so that it cannot be confused with other common workplace sounds. The best-

in-class *visual alarm* features four multi-directional, super-bright LED displays located on the top of the instrument so it can be seen from all angles. The alarm status is also shown in the numeric display. An optional *vibrating alarm* emits a strong, pulsing vibration that further calls attention to the user when in alarm mode. The vibrator is strong enough to be felt through heavy work clothes.

## Clip Options



With options for suspender- and cell-phone-style clips and lanyards, MSA's unique clip designs keep the unit attached during even the roughest use.

## Replaceable Battery



The long-life 123-type lithium battery will power the unit for well over one year with eight-hours-per-day usage. It features a 10-year shelf life. The current battery status is constantly displayed on the instrument.

## Replaceable Sensor



MSA-built, patented Button™ Sensors are easily replaceable. The stainless steel, solid electrolyte construction sensors contain no liquid, 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 compact package.

## Durability

The PULSAR+ Single-Gas Detector is designed to withstand even the harshest conditions and usage. The interlocking gasket that provides water resistance also absorbs some of the shock when dropped. Its solid-state circuitry and rugged case design increase impact resistance and minimize the chance for breakage.

## Water & Dust Resistance



With its 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 one of the most water- and dust-resistant instruments in its class.

## User Configuration

The PULSAR+ Single-Gas Detector features fully adjustable warning, peak, STEL and TWA alarm levels. STEL and TWA functions can be deactivated. All alarm and calibration gas value settings are password protected.

## Large Rubber Buttons

Large rubber buttons make the PULSAR+ Single-Gas Detector easy to operate—even with gloves. The button labels feature English text and international icons.

**The unique design of the PULSAR+ Single-Gas Detector, combined with its competitive price, makes it the clear choice. And the PULSAR+ Single-Gas Detector is designed and manufactured by MSA, the most trusted name in the gas-detection industry.**

## PULSAR<sup>+</sup> Single-Gas Detector

Instrument Type	Part Number
CO	10036171
CO with vibrating alarm	10036174
H <sub>2</sub> S	10036172
H <sub>2</sub> S with vibrating alarm	10036175
O <sub>2</sub>	10036170
O <sub>2</sub> with vibrating alarm	10036173

Gas Type	CO	H <sub>2</sub> S	O <sub>2</sub>
Range	0-500 ppm	0-200 ppm	0-25% O <sub>2</sub>
Resolution	1 ppm	1 ppm	0.1% O <sub>2</sub>
Response Time	T <sub>90</sub> <60 sec	T <sub>90</sub> <60 sec	T <sub>90</sub> <35 sec

Factory-set Alarm Setpoints	Low Alarm	High Alarm	STEL	TWA
CO	35 ppm	100 ppm	400 ppm	35 ppm
H <sub>2</sub> S	10 ppm	15 ppm	15 ppm	10 ppm
O <sub>2</sub>	19%	23%	–	–

**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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