

# Responder Series Toxic Gas and Oxygen Alarms

New  
NOW  
WITH  
VIBRATING  
ALARM



# Portable, Powerful and Precise

Now, detecting potentially hazardous concentrations of carbon monoxide or oxygen, or dangerous emissions of hydrogen sulfide, is as simple as pressing a button. With MSA's Responders, you'll have instant knowledge of silent dangers that may be threatening your immediate environment. Now, with the Responders, you can respond swiftly and confidently.

## MiniCO® Responder

Compact and lightweight, the MiniCO Responder provides fast, accurate sampling of CO concentrations from 0 to 999 parts per million. Ideal for firefighters, gas utility emergency crews or workers in a steel mill, the MiniCO Responder identifies hazardous situations immediately. When lower levels of CO are detected, the MiniCO Responder gives a warning or "low alarm." When higher levels of CO are detected, the unit sounds a "high alarm," emitting fast, shrill beeps.

*MSA Responders feature simple three-button control for easy operation. With the press of a single button, the Responder will display a peak reading of its target gas within seconds. Both a Fresh Air Setup and adjustable alarm setpoints are standard in both Responders.*

*The Responders feature a large LED display for easy reading in dark, confined spaces.*



## MiniOX® Responder

For detecting low levels of oxygen in confined spaces or in any location suspect of oxygen deficiency or enrichment, the MiniOX Responder is the premier unit for immediate assessment. A peak (lowest) reading of the total percentage of oxygen detected is displayed at the push of a button. An intermittent beep warns when oxygen enrichment is detected. This low-rate alarm can be reset while oxygen enrichment is still detected. However, when the MiniOX Responder detects insufficient oxygen levels, a high-rate alarm is activated and locks out any attempt to reset the unit until it is removed to an environment where the oxygen level exceeds the warning level.

*MSA's MiniCO Responder offers a peak reading, as well as continuous readings, of carbon monoxide levels present in the immediate environment.*



The sensor at the end of a 10-ft cable allows the MiniOX Remote Responder to detect oxygen levels in confined spaces.



## MiniOX® Remote Responder

Perfect for identifying oxygen deficient or enriched atmospheres, the MiniOX Remote Responder offers unparalleled ease of use and reliability. Equipped with alarms for both oxygen deficiency and enrichment, it is the ideal instrument for confined space entry monitoring. The MiniOX Remote Responder comes equipped with a dynamic range sensor attached to the end of a 10-ft cable, allowing detection in even the tightest of confined spaces. Examples of confined spaces where the MiniOX Remote Responder can be used include sewer entry and tank monitoring aboard marine vessels.

	CO	O <sub>2</sub> and O <sub>2</sub> Remote	H <sub>2</sub> S
Detection Range	0-999 ppm	0-100%	0-500 ppm
Weight	7 oz.	7 oz.	7 oz.
with vibrating alarm	7.7 oz.	N/A	7.7 oz.
Battery Life under continuous operation	3 months	3 months	3 months
Alarm Preset points	35 and 100 ppm	19.5% and 22.0%	10 and 15 ppm
Response Time	90 sec. or less to 90% of reading	30 sec. or less to 90% of reading	90 sec. or less to 90% of reading

## MiniH<sub>2</sub>S® Responder

In pulp and paper mills, water and waste treatment facilities, and oil refining or exploration sites, the presence of hydrogen sulfide can be hazardous to safe working conditions. In lower concentrations, irritation of the eyes and upper respiratory tract may occur. In higher concentrations, hydrogen sulfide can precipitate full respiratory paralysis. That's why engineers in these facilities should carry MiniH<sub>2</sub>S Responders at all times.

Like the MiniCO Responder, audible and visible warnings or alarms are activated when gas concentrations exceed two pre-set levels. A "Warning" (W) or low alarm is activated when a lower concentration of hydrogen sulfide is detected. A distinctive pulsing alarm is activated when a higher concentration is detected. This "High Alarm" (A) can be cleared only when the concentration drops below the alarm set point level.



MSA Responders are designed for worry-free operation with heavy gloves. Three wide buttons activate a full range of programmable functions including in-field calibration. MSA Responder units also include a low-battery warning alarm.

**New**

The MiniCO and MiniH<sub>2</sub>S Responders are now available with a vibrating alarm. There are three methods of notification of an alarm condition: audio, visual and physical. The physical alarm is ideal for users in noisy work conditions or users who prefer to carry the instrument out of sight, such as in a back pocket. A strong vibration alerts the user in an alarm condition.

## Compact, Convenient, Complete

The MiniCO Responder Kit is designed specifically for firefighters or utility service personnel who must respond quickly to CO calls. The Kit contains a MiniCO Responder with a protective jacket and neck strap, a Squirt® Gas Bump Tester or RP size calibration gas cylinder, and 10 MiniCO Carbon Monoxide Detector Tube Cards, all packaged for convenience in a durable, compact carrying case. The Squirt Gas Bump Tester provides a quick and certain means of calibrating the MiniCO Responder in the field. The Detector Tube Cards offer homeowners an easy and affordable means of checking their exposure to CO levels after the service person or firefighter has left the home.

The Responders are ETL-approved for use in Class I Division 1, Groups A, B, C and D locations.

## Ordering Information

Part No.	Description
710424	MiniCO Responder with on/off capabilities
710510	MiniCO Responder without on/off capabilities
10008671	MiniCO Responder with vibrating alarm and on/off capabilities
10008673	MiniCO Responder with vibrating alarm, without on/off capabilities
710850	MiniH <sub>2</sub> S Responder with on/off capabilities
10008672	MiniH <sub>2</sub> S Responder with vibrating alarm and on/off capabilities
710965	MiniOX Responder with on/off capabilities
10001923	MiniOX Remote Responder with on/off capabilities
710550	MiniCO Responder Kit with calibration gas, regulator and tubing
710551	MiniCO Responder Kit with bump test gas

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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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## Accessories

Other options include a calibration kit for either the MiniCO Responder or MiniH<sub>2</sub>S Responder.

Part No.	Description
477149	Model RP Calibration Kit including regulator & tubing
473180	300 ppm CO Calibration gas
467898	10 ppm H <sub>2</sub> S Calibration gas
467897	40 ppm H <sub>2</sub> S Calibration gas

In addition, several protective jackets are available to carry either Responder. Although both Responders feature a clip for pocket or belt mounting, some field situations require the Responder to be carried over the shoulder or neck, or suspended in a confined space.

Part No.	Description
710480	Orange Cordora with neck strap
710916	Black Vinyl with neck strap, with vinyl window
711137	Black Vinyl with neck strap, open front
710979	Black Leather with neck strap

## Replacement Parts

Part No.	Description
710490	CO Sensor Assembly
710944	H <sub>2</sub> S Sensor Assembly
710966	O <sub>2</sub> Sensor Assembly
458169	Remote O <sub>2</sub> Sensor with 10-ft cable
628817	9-V Battery
710492	Calibration Cap
710493	Battery Cover Door with Screws
710489	Belt Clip
481954	CO Detector Tube Cards, Box of 10

