

Operating Instructions Sulfur Dioxide Cassette (Part Number: 084065)

Applications:

The Chameleon is the only hands-free, power-free, chemical detector for gases and vapors **in air**, allowing First Responders, Firefighters, EMS, Police Officers and Military to detect the presence of hazardous chemicals. No liquid sample required. The Chameleon may even be immersed in salt water or fresh water without affecting its performance. Developed under funding by the United States Marine Corps, the Chameleon is ideal for users to screen unknown hazards in their environment.

Sulfur dioxide is widely used in bleaching and in the chemical manufacture of sulfuric acid. Additionally, it has been used as a food preservative; particularly to maintain the appearance of fruit. Sulfur dioxide is produced by combustion of coal, fuel oil, and gasoline, since these fuels contain sulfur. It is a dangerous air pollutant because of its corrosive properties; it irritates the eyes, nose, and lungs. Exposure to sulfur dioxide may irritate the lungs causing coughing and/or shortness of breath. Higher exposures may cause pulmonary edema.

Specifications:

The chemical sensor in the sulfur dioxide cassette shows an easy to see color change. Half of the sensor window will change color as shown in the example below:





Unexposed

Exposed

Description	Concentration	Reaction Time
Sulfur dioxide	50 ppm	3 minutes

Interferences:

The sulfur dioxide cassette was exposed to saturated vapor concentrations of toluene, bleach, DEET, gasoline, diesel fuel and JP-8 jet fuel for one hour. No false positive or false negative readings were observed. No other interferences are known.

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Operating Instructions:

- 1. The expiration date marked on the packaging assumes storage at 77 °F. Short term storage temperatures between 35 °F and 140 °F are acceptable.
- 2. At time of use remove cassette from its protective foil pouches. Discard both foil pouches and the small white pouch inside the foil pouch.
- 3. Holding cassette with text facing up, slide cassette into Chameleon armband until the cassette firmly snaps into the armband.
- 4. Periodically view the cassette to observe color change in half of the sensor
- 5. Discard cassette after color change is observed or after 24 hours of use.
- 6. DO NOT use cassette beyond 24-hour service life.

WARRANTY EXCLUSIONS AND LIMITATION OF LIABILITY

IF THE USER DOES NOT ACCEPT THE FOLLOWING TERMS, THE USER SHOULD NOT USE THE CHAMELEON CASSETTES AND ARMBAND.

Seller warrants that, for the lesser of two (2) years or the shelf-life provided on the Seller's product, its packaging or its literature, its products shall conform to the description of such products as provided on the Seller's product, its packaging or its literature. THIS WARRANTY IS EXCLUSIVE, AND SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. Seller's warranties made in connection with this sale shall not be effective if Seller has determined, in its sole discretion, that Buyer has misused the products in any manner, has failed to use the products in accordance with safe industry standards and practices, or has failed to use the products in accordance with Seller's written operating instructions, or other instructions furnished by Seller to Buyer.

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Warning: Keep out of reach of children, if ingested seek medical attention immediately.

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Morphix Technologies®, 2557 Production Rd., Virginia Beach, VA 23454 Phone: +1-757-431-2260 Fax: +1-757-216-6209 www.morphtec.com