CHAMELEON
DETECTING THE INVISIBLE™

Operating Instructions
Hydrogen Cyanide Cassette
(Part Number: 084048)

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 Navy through a Small Business Innovative Research Grant, the Chameleon is ideal for users to screen unknown hazards in their environment.

Specifications:

The chemical sensor in the hydrogen cyanide cassette shows an easy to see color change. Half of the sensor window will change color indicating a response. Depending on the environmental conditions the color change may range from blue to pink.



Unexposed Exposed

Description	Concentration	Reaction Time
Hydrogen Cyanide (AC)	25 ppm	2 minutes

Interferences:

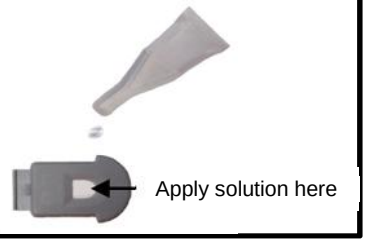
The hydrogen cyanide cassette was exposed to saturated vapor concentrations of toluene, bleach, DEET, gasoline, diesel fuel and JP-8 jet fuel for one hour. No false positive or false negative readings were observed. No other interferences are known.

Cross Sensitivity:

Exposure to hydrazine vapor limits the ability of the cassette to detect hydrogen cyanide, potentially resulting in a false negative reading. **Morphix Technologies recommends using the hydrazine cassette (PN 084045) to identify the potential for a false negative impact from hydrazine vapor.** The hydrogen cyanide cassette responds to cyanogen chloride (CK) with similar sensitivity as to HCN.

Technical Note:

Each hydrogen cyanide cassette is packaged with a water applicator vial. This vial contains a sterile salt solution that is non-toxic and safe for skin contact. Following Step 6 of the operating instructions, apply the solution to the cassette as pictured:



Publication Number: 08-4048A.4-0217

Operating Instructions:

1. Expiration date marked on the packaging assumes storage at 77 °F (25 °C). Short term storage at temperatures between 35 °F (1.6 °C) and 140 °F (60 °C) is acceptable.
2. At time of use, remove water applicator vial from cassette pouch by gently pulling the vial to remove it from package. Retain for use in Step 5.
3. Remove cassette from protective pouch by tearing pouch at provided tear notch.
4. Firmly grip cassette and remove it from packaging. Ensure that the plastic pull tab, which is attached to the packaging, is removed completely from the cassette.
5. Twist off the tab on the water applicator vial.
6. Holding the cassette with text facing down, apply the entire contents of the vial drop wise to the white absorptive membrane. The solution will saturate the membrane but complete absorption is not required for activation.
7. Holding cassette with text facing up, slide cassette into Chameleon armband until the cassette firmly snaps into the armband.
8. Periodically view cassette to observe color change in half of the sensor window.
9. Discard cassette after color change is observed or after 24 hours of use.
10. 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.

Seller's sole and exclusive liability and Buyer's exclusive remedy with respect to products to Seller's satisfaction to be defective or nonconforming shall be replacement of such products without charge or refund of the purchase price, in Seller's sole discretion, upon the return of such products in accordance with Seller's instructions. All claims must be brought within two (2) years of shipment, regardless of their nature.

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

US Patent No. 6,284,198 and 8,043,198.

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