



HAZMATCAD™* Hazardous Material Chemical Agent Detector [for the Detection of Trace Chemical Agents]

The HAZMATCAD Hazardous Material Chemical Agent Detector is a handheld instrument that detects and classifies Chemical Warfare Agents (CWA). When compared to other technologies, the HAZMATCAD Detector offers more capabilities and greater reliability at a lower cost.

The HAZMATCAD Detector has demonstrated superior selectivity for nerve and blister agents, and often outperforms other portable instruments. It combines a

Surface Acoustic Wave (SAW) array detector with innovative sample collector and advanced signal processing algorithms to minimize false alarms in unpredictable environments. Additionally, the instrument can be configured to detect phosgene (CG) or hydrogen cyanide (AC), thereby expanding its threat detection capabilities.

HAZMATCAD Detector's operation is simple. A single key-press begins automatic sampling and analysis. Alarm messages are

given both visually and audibly for nerve (G), blister (H) or toxic (TOX) chemical threats. The HAZMATCAD Detector is lightweight, ruggedly constructed and can easily be used while wearing a Level A protection suit. Created specifically to meet the complex needs of First Responders, the HAZMATCAD Unit gives them a CWA tool that delivers detection confidently and without compromise.

* HAZMATCAD is a Trademark of Microsensor Systems, Inc.

Features

- Compact, light-weight and portable
- Self-diagnostic check during rapid warm-up
- Alphanumeric display with LED alarms
- Dual-Mode SAW Operation—Fast or High Sensitivity
- Operates between 8 and 12 hours on rechargeable Li-Ion batteries
- Vapor-diffusion check source verifies system performance
- Unit can be hand-carried or worn on belt
- RS-232 and IrDA communication ports; stores up to 8 hours of data
- Inlet design protects against dust and particulates

HAZMATCAD Kit Includes

- HAZMATCAD Detector
- Battery Charger
- Belt Clip
- Two Sony Rechargeable Batteries
- Hard, Water-resistant Carrying Case
- Operating Manual
- Vapor Check Source



HAZMATCAD Specifications

Weight	22 ounces with batteries (0.63kg)
Dimensions	2.3 x 2.5 x 7.8 inches (5.8 x 6.2 x 19.8cm)
Sensor Technology	Surface Acoustic Wave Microsensor Array
Analysis Time	20 Seconds – Fast Mode, 120 Seconds – High Sensitivity Mode
Visual Display	Four-character alphanumeric LCD display plus status LEDs
Warm-up	Less than 3 minutes
CWA Alarm Thresholds	Nerve Agents (G) Fast Mode – 0.3 to 0.9mg/m ³ or (0.04 to 0.14ppm) Blister Agents (H) Fast Mode – 1.4mg/m ³ or (0.2ppm) Nerve Agents (G) High Sensitivity Mode – 0.06 to 0.18mg/m ³ or (0.01 to 0.03ppm) Blister Agents (H) High Sensitivity Mode – 0.28mg/m ³ or (0.04ppm)
Blood or Choke Alarm Thresholds	Hydrogen Cyanide – Blood Agent – "TOX" (AC) – 5.0ppm Phosgene – Choke Agent – "TOX" (CG) – 0.3ppm
Battery Type	Sony NP-F550 Li-Ion rechargeable
Mission Life	8 hours – Fast Mode, 12 hours – High Sensitivity Mode
Audible Alarm	85 db at 0.1 meter
Data Output	9600 baud infrared data port, RS-232 with adapter cable
Operating Temperature	0° to 40°C, 32° to 105°F
Operating Humidity	0 to 95% non-condensing
Warranty	One year parts and labor

Ordering Information

10055094	Detects Nerve and Blister
10055095	Detects Nerve, Blister and Hydrogen Cyanide
10055096	Detects Nerve, Blister and Phosgene

Note: This Data Sheet contains only a general description of the product shown. While uses and performance capabilities are described, under no circumstances should the product be used except by qualified, trained personnel, and not until the instructions, labels or other literature accompanying the product have been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning this product.

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