

HAZMATCAD™ PLUS

Hazardous Material Chemical Agent Detector with Selected TICs



Portable instrument for detection of nerve and blister agents, and hydrogen cyanide.

The HAZMATCAD Plus Detector is a portable instrument designed for one-hand operation. It is easy to operate and requires limited training for effective use.

In an unknown environment, instrument reliability and analysis specificity are key to correct threat determinations. HAZMATCAD Plus Detectors provide first responders with these unprecedented field performance capabilities.

This unit combines two proven detection technologies: a Surface Acoustic Wave (SAW) sensor array and an electrochemical cell array to meet a wide range of chemical threats.

The HAZMATCAD Plus Detector provides superior selectivity through innovative design. By using a SAW sensor array and a thermally-modulated sample collector, the unit provides unsurpassed false alarm rejection. This ability to provide no-compromise CWA performance with the addition of select TICs such as phosgene, hydrogen cyanide, halogen and hydride gases makes the HAZMATCAD Plus Detector the best solution for detection of a broad range of chemical threats.

Features

- Compact, lightweight, and portable
- Self-diagnostic check during rapid warm-up
- Alphanumeric display with LED alarms
- Dual-Mode SAW operation – Fast or High Sensitivity
- Electrochemical cells – real-time analysis
- Run time of 8-12 hours on rechargeable li-ion batteries
- Vapor-diffusion check source verifies system performance
- RS-232 and IrDA communication ports; stores up to 8 hours of data
- Inlet design protects against dust and particulates

HAZMATCAD Detector Plus Kit Includes

- HAZMATCAD Plus Detector
- Battery charger
- Belt clip
- Two Sony rechargeable batteries
- Hard, water-resistant carrying case
- Operating manual
- Vapor check source



HAZMATCAD Plus Specifications

Weight	50 ounces with batteries (1.43kg)
Dimensions	2.3 x 7.9 x 9.8 inches (5.8 x 20.0 x 24.9 cm)
Sensor Technologies	Surface acoustic wave microsensor array, electrochemical cell array
Analysis Time – SAW Sensors	20 seconds – FM (Fast Mode), 120 Seconds – HS (High Sensitivity Mode)
Analysis Time – Electrochemical	Real-time
Visual Display	4-character alphanumeric LCD display plus status LEDs
Warm-up	Less than 3 minutes
CW 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)
TIC Alarm Thresholds	Hydrogen cyanide – blood agent – "BLoD" (AC) – 5.0ppm Phosgene – choke agent – "CHOK" (CG) – 0.3ppm Hydride – "HYdR" – 0.5ppm Halogen – "HALO" – 10.0ppm
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	1-year parts and labor

Ordering Information

10055097 Detects nerve, blister agents, and TICs (phosgene, hydrogen cyanide, halogen, and hydride gases)

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.

ID 0815-25-MC / Jan 2008
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MSA
The Safety Company

For Additional Information Contact: 184 Duke of Gloucester Street TEL: 1-410-295-0813
Annapolis, Maryland 21401 FAX: 1-410-295-0821
United States of America E-MAIL: Office@TradewaysUSA.com

TRADEWAYS LTD