



HAZMATCAD™* Plus Hazardous Material Chemical Agent Detector with Selected TICs

[for the Detection of Trace Chemical Agents and TICs]

The HAZMATCAD Plus Detector detects for Chemical Warfare Agents (CWA) and selected Toxic Industrial Chemicals (TICs).

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

In an unknown environment, instrument reliability and analysis specificity are the key to making correct threat determinations. HAZMATCAD

Plus Detectors provide First Responders with these unprecedented field performance capabilities.

It 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 its innovative design. By using a SAW array detector 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 selected TICs such as phosgene, hydrogen cyanide, halogen and hydride gases makes the HAZMATCAD Plus Detector the best solution for protecting against a broad range of chemical threats.

* 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
- Electrochemical Cells – Real time analysis
- Operates between 8 and 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 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	Four-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	One year parts and labor

Ordering Information

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

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.

Data Sheet 0815-25
Apr 2004 (L)
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