

HAZMATCAD™ Hazardous Material Chemical Agent & TIC Detector Series



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VENDOR DESCRIPTION

Microsensor Systems Inc. (MSI) is the world leader in Surface Acoustic Wave (SAW)-based chemical detectors. Our proven SAW technology has been tested and deployed in hundreds of locations and applications for the detection of chemical warfare agents (CWAs), i.e., nerve and blister.

The HAZMATCAD series of SAW-based portable CWA detectors identifies and detects both nerve and blister agents along with blood or choke gases. The HAZMATCAD Plus offers the added capability of detecting Toxic Industrial Chemicals (TICs) by chemical class identification.

HAZMATCAD detectors are engineered to provide the best selectivity for CWAs in real world, often complex chemical environments. They are simple to operate, are battery powered, require no user maintenance and have no consumables.

The HAZMATCAD has been field-deployed with the Remotec EOD Robots.



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Business Category: Small Business

CAD

Hardware	
Power: 7.2 volts Sony lithium ion battery, 1.25 watts	Operating Altitude: 0 ft to 10,000 ft AGL
Weight: 1.43 kg or 3.1 lbs	Operating Speed: N/A
Dimensions: 5.8 x 20.0 x 24.9 cm or 2.3 x 7.9 x 9.8 inches	Operating Temp.: 0°C to 40°C
Internal Volume: 700 cc	Storage Temp.: -10°C to 60°C
On-board storage capacity to handle 8 hours on station	Interface: 9600 baud infrared data port, RS-232 with adapter cable
Sensor Type: Surface Acoustic Wave Microsensor Array, Electrochemical Cell Array	Bandwidth Required: N/A
Sensor Field of View: N/A	TCDL Compatibility: No
Internal Permanent Archive on Information: Yes	MTBOMF: > 5000 hrs
Concentration Level: Fast mode (20 seconds): 0.3 to 0.9 mg/m ³ or (0.04 to 0.14 ppm) for nerve (G) agents 1.4mg/m ³ or (0.2 ppm) for blister (H) agents 5.0 ppm for hydrogen cyanide blood (AC) agent 0.3 ppm for phosgene choke (CG) agent 0.5 ppm for hydride; 10.0 ppm for halogen	MTTR: 0.5 hrs

Performance
Completes 98% of the Missions it states w/out experiencing a mission abort
Sensor hardened to mitigate damaging effect from EMP: No
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Operate & communicate in electromagnetic energy emission environment: Yes
Provides detection of nerve, blister, blood, choke agent and TIC vapors and aerosol (GA, GB, GD, GF, VX, HD, HN3, hydrogen cyanide and phosgene).