

REMBASS-II Chem/Bio Artillery Detector



Date Revised: 30 JAN 04

VENDOR DESCRIPTION

The REMBASS-II Chem/Bio Artillery Detector (CBAD) is a joint program between L-3 Communications and ARL. The CBAD measures the seismic and acoustic energy emitted by an artillery blast to distinguish a chemical or biological delivery round from a standard high-energy round. It is a passive, covert sensor that uses sophisticated signal processing to achieve a high level of accuracy. The sensor is interoperable with the U.S. Army's type standard REMBASS-II system and communicates target messages up to 15km using LPI/LPD burst transmissions on one of 599 channels in the VHF band.



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Business Category: Large Business

BAD

Hardware	
Power: 25 mW	Operating Altitude: 0 ft to 15,000ft AGL
Weight: 1.1 kg	Operating Speed: N/A
Dimensions: 189mm x 104mm x 80mm	Operating Temp.: -20°C to +71°C
Internal Volume: 0.0016 m ³	Storage Temp.: -40°C to 71°C
Onboard Storage Capacity to Handle .1 hours on Station (Data Relay via RF)	Interface: SIEWG-005, or RS-232
Sensor Type: Seismic/Acoustic	Bandwidth Required: Per SIEWG-005, 1200bps
Sensor Range: ~1 km	TCDL Compatibility: No
Internal Permanent Archive of Information: Yes	MTBOMF: > TBD hrs
	MTTR: TBD hrs
	Maintainability: 2-level BIT to LRM Level

Performance
Complete TBD% of the Missions it states w/out experiencing a mission abort
Sensor Hardened to Mitigate Damaging Effect from EMP – Yes
Sensor Hardened to Eliminate Damaging Effect from EMP – Yes
Capability to Detect all BWAs Listed in NG1C-1671-0813-01, Chemical Biological Warfare Capabilities and Toxic Industrial Chemicals, dated 20 April 2001 – liquid, solid, rain, aerosol: Unique sensing device limited to early warning of Chemical or Biological Artillery explosion