LCD 4™

COMPACT, WEARABLE CWA IDENTIFIER AND TIC DETECTOR

Feature Highlights

- Combined CWA and TICs detection library
- Up to 75 hours continuous use from a single set of commercial AA batteries
- Operates reliably in extreme environments
- Uses advanced, non radioactive IMS technology
- Enhanced with new communications and trace detection extensions

Based on leading IMS technology, the LCD 4 is a light and versatile chemical warfare agent (CWA) and toxic industrial chemical (TIC) detector.

LCD 4 is an advanced warning device, that alarms to gas and vapour threats detected and identified at or below immediately dangerous to life and health (IDLH) levels, by determining the agent type, class, concentration and dosage of chemical exposure. It can also be used as a screening and survey device.

Flexible mounting options allow the LCD 4 to be handheld or clipped to a belt, harness or shoulder strap, to enable the user to undertake their primary role without obstruction. Features include both audible and visual alarms plus a clear, easy-to-read liquid crystal display.

This device is very simple to operate and requires no calibration or complicated routine maintenance. The impressive performance of the LCD 4 combined with its ergonomic design and functionality provides a wide range of user capability while ensuring a minimal logistic burden.

LCD 4 can record up to 72 hours of mission data for future analysis and features serial connectivity for data downloads and post-mission analysis. The device is designed to meet the requirements of MIL-STD-810 and MIL-STD-461.

New product extensions and accessories extend the capabilities of the LCD 4, including wireless connectivity and detection of trace explosive, narcotic and deposited chemical residues threats.

LCD 4 is based on the LCD 3.3, selected by US DoD for the Joint Chemical Agent Detector (JCAD) programme. The LCD 4 is backed by first-rate service, training and support to ensure optimum product performance.

Size	10.6 x 18.0 x 4.65 cm (4.17 x 7.08 x 1.83 in)
Weight	0.58kg (1.3 lbs.) including batteries
Power	9 Vdc
	110/240V ac using PSU (Power Supply Unit)
Batteries	4 x AA lithium iron disulphide or 4 x AA alkaline manganese dioxide
	(rechargeable NiMH AA batteries can be used)
Detection Technology	Advanced non rad Ion Mobility Spectrometry
Agents Detected	Nerve, blood, blister, choking and a selected library of TICs
Extensions	XID, PCA and XCOM extensions are available to increase the capability of the LCD 4 (see below)
Colours	Green or black
Standard Menu Languages	English, French, German, and Spanish. Additional language configurations will be considered upon request
Available	will be considered upon request.
Software Connectivity	Provides 3rd party integrators and OEMs with the ability to interface LCD 4 with a variety of platforms
Networking	XCOM accessory provides wired or wireless connectivity
Operating temperature range	-32°C to 52°C (-25.6°F to 125°F)
Operating humidity range	0 to 100% RH

Three modes of operation:

- **CWA & TICs**: for the detection of chemical warfare agents and toxic industrial chemicals

- **CWA Only**: for the identification of chemical warfare agents

- **Survey**: for the detection of residual persistant contamination following decontamination

Extensions:

XID

The XID is an adapter that interfaces with the LCD 4 adding trace sampling and detection of narcotics, explosives and non-traditional agents.

Power Communications Adaptor

The flexibility of LCD 4 can be further enhanced with the addition of a power & communications adaptor (PCA) for fixed site and vehicle mounted applications, enabling connectivity via USB or RS422 serial protocols.

Auto Inlet Module

Can be integrated into vehicle systems to provide remote and automatic operation.

XCOM

The XCOM allows the LCD 4 to connect wirelessly via Bluetooth to the user's preferred communications system whilst worn, mounted on load-bearing equipment or remotely deployed. It enables the rapid deployment of a remote network of LCD 4s which can be integrated into C2 systems to enhance situational awareness and early warning.

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