

LCD-3™

Lightweight Personal Chemical Detector LCD-3 series



Feature highlights

- **Small and lightweight**
- **Continuous real time detection of Nerve, Blister and Blood agents and Toxic Industrial Chemicals**
- **Advanced IMS technology using a non-radioactive source**
- **Up to 40 hours of operation on AA type batteries**
- **Rapid start-up, self-test and clear-down time**

Smiths Detection LCD-3 is a lightweight, personal battery operated instrument developed to detect and identify airborne Chemical Warfare Agents (CWAs) and the vapours of Toxic Industrial Chemicals (TICs). In operation LCD-3 continually samples the air for gases and vapours and employs non-radioactive Corona Discharge Ion Mobility Spectrometry techniques for identification of chemical hazards.

The LCD-3 provides the military user and civilian first responder with a discreet and effective means of detecting a wide range of chemical agent threats. The instrument's lightweight design allows users to wear the unit on their clothing, belt or harness. One detector provides protection

to an entire group via its local alarm. Its speed of response, ease of use and clear display of information make the LCD-3 the perfect personal chemical agent detector for either the soldier on the battlefield or the first responder on the streets.

The design impetus for the LCD-3 grew naturally from the substantial UK MoD LCAD programme and the US DoD (SBCCOM & SOCOM) have also undertaken extensive evaluation programmes of the LCD-3 in relation to the US JCAD Programme.

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Roles

Modes of operation

- The LCD-3 may be used by personnel in various environmental conditions, held in hand whilst wearing protective clothing or alternatively, the detector can be operated whilst inside the carrying pouch which is in turn fastened to clothing or IPE, thus giving a "hands free" detection capability
- The LCD-3 detects, identifies, quantifies and warns personnel of chemical agent threats at below attack concentrations
- A secondary display on the front panel of the detector shows the concentration bar level and the accumulated dosage indicators
- The detector has two modes of operation; CW mode for the detection of chemical warfare agents and TIC mode for the detection of toxic industrial chemical vapours

Survey and Data Storage

- A Survey Nozzle can be employed in place of the LCD-3 Raincap to investigate specific areas of cargo, equipment/personnel
- The LCD-3 has RS 232 and RS 422 communications interface and can store up to 72 hours of cumulative event data.

Specifications

Size

180 x 110 x 40mm

Weight

432g

Power

8-32Vdc or 110/240V ac

Batteries

4 x AA Lithium Ion Disulphide, or
4 x AA Alkaline Manganese Dioxide

Temperature Range

-31°C to +55°C

Agents Detected

Nerve, blister and blood agents & TICs in line with or exceeding current NATO requirements

Response Time

Typically 3 seconds

Display

Dual LED displays with NVG capability. Displays agent class, fault and battery condition, agent concentration in bar format and accumulated dosage.



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