

APPENDIX A

DECONTAMINATION MATERIALS AND EQUIPMENT

RETAIN FOR FUTURE USE

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DECONTAMINATION MATERIALS AND EQUIPMENT

Decontamination -- Individual Level

Item and Description

M291 Skin Decontaminating Kit (SDK)
NSN 4230-01-276-1905 identifies a box containing 20 kits.

Use

The M291 Skin Decontamination Kit allows you to completely decontaminate your skin through physical removal, absorption and neutralization of toxic agent with no long-term harmful effects.

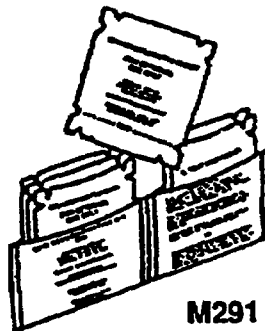
NOTE: This kit should be used for combat and training purposes.

Limitations

WARNING

For external use only. It may be slightly irritating to skin or eyes. Keep decontaminating powder out of eyes, cuts, or wounds.

Reference: TM 3-4230-229-10



M291

Item and Description

M258A1 Skin Decontamination Kit
NSN 4230-01-101-3984

Foil packaged decon towelettes in an olive drab plastic case.

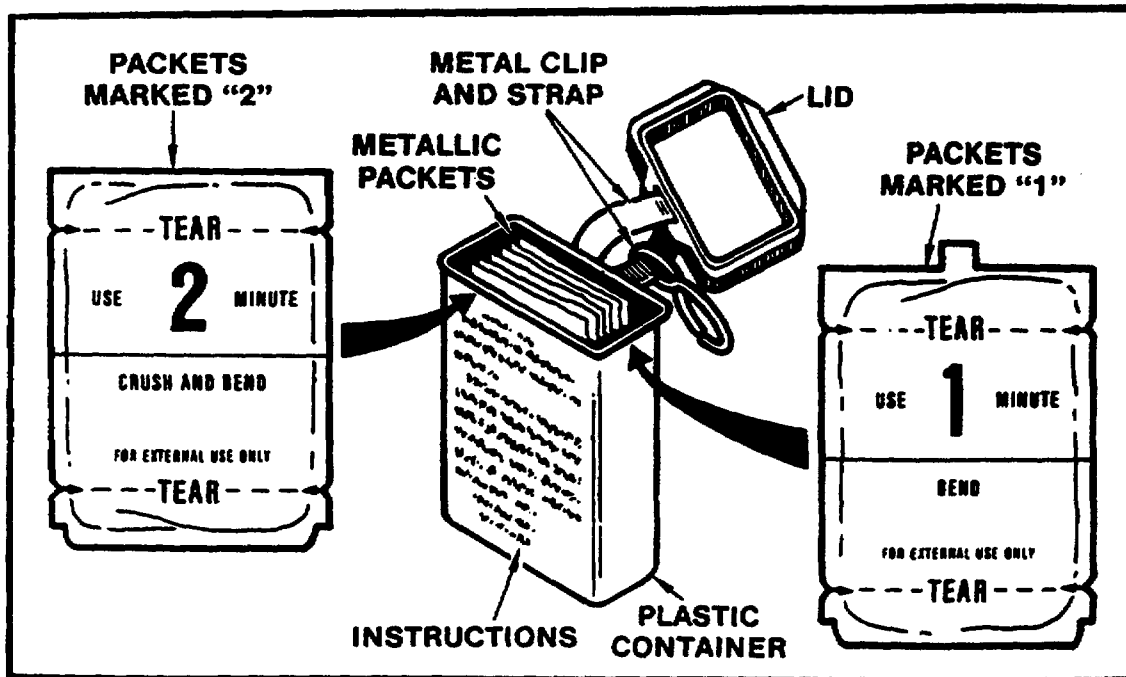
Use

To decontaminate skin contaminated by liquid chemical agents. May be used to decontaminate protective mask, hood, butyl rubber gloves, helmet, and individual weapon. It is useful to decon sensitive equipment such as optics and electronics. Although soap and water are preferred, the skin decon kit may also be used to decontaminate biological agents.

Limitations

The decon solution is acidic and caustic. Keep out of eyes, mouth, and wounds. Use water to wash toxic agent or solution out of eyes or wounds and seek medical attention. Do not store where temperature exceeds 110° F. This item is being replaced by the M291 Skin Decon Kit.

Reference: TM 3-4230-216-10



Item and Description

M280 Decontamination Kit, Individual Equipment (DKIE)
NSN 4230-01-206-4252 or Training Aid NSN 4230-01-207-1911

Use

The DKIE was designed to decontaminate an individual's chemical protective gloves, mask, hood, overboots, weapon and LCE.

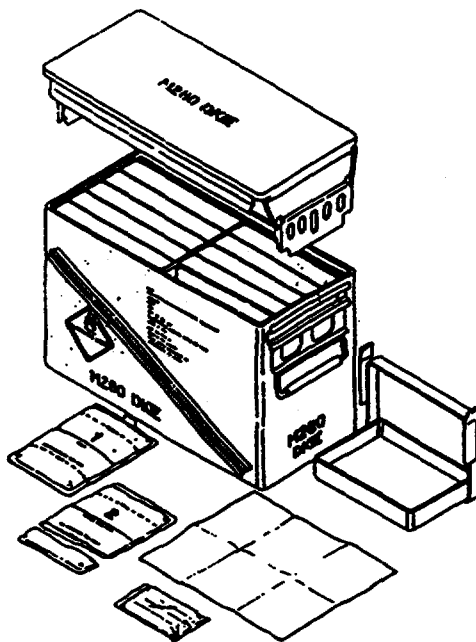
Limitations

The M280 is on hold pending replacement by the M295 Personal Equipment Decontamination Kit.

WARNING

Do not use for skin decontamination. Keep out of eyes, mouth, open wounds, and off the skin.

Reference: TM 3-4230-224-10



Decontamination -- Operator/Crew Level

Item and Description

ABC M11 Decontaminating Apparatus, Portable DS2, 1 1/2 Quart
NSN 4230-00-720-1618

A fire extinguisher-like device used to spray DS2. It is refillable and is charged by nitrogen cylinders. The apparatus comes with a mounting bracket that may be attached to vehicles and equipment.

Use

To spray DS2 on the surfaces of vehicles and equipment most likely to be touched by operators and crew.

Limitations

At low temperatures two nitrogen cylinders may be needed to charge the apparatus.

References: TM 3-4230-224-12 & P and TM 43-0001-26-1P



Item and Description

M13 Decontaminating Apparatus, Portable (14 liter)
NSN 4230-01-133-4124

A self-contained device used to apply DS2 to metal surfaces. It has a 14 liter (3.7 gallon) DS2 container which is disposable. The apparatus can be mounted to standard 5-gallon fuel can mounts on vehicles and equipment.

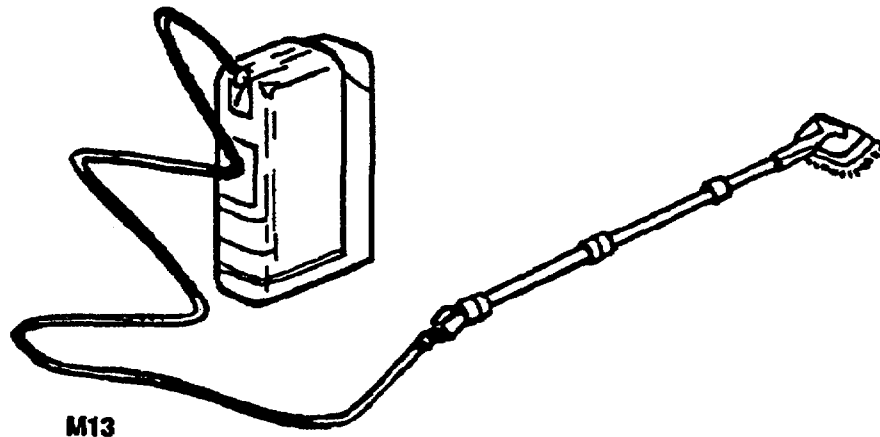
Use

To spray and scrub DS2 on surfaces of vehicles and equipment.

Limitations

DS2 container (14-liter) cannot be refilled. Replacement containers are listed on page D-1, Appendix D of FM 3-5.

References: TM 3-4230-214-12 & P and TM 43-0001-26-1



Decontamination--Battalion Decon Crew and Chemical Company Level

Item and Description

ABC-M12A1 Power-Driven Decontaminating Apparatus, Skid-Mounted, Multipurpose, Integral, 500-gallon

NSN 4230-00-026-9488 LIN F81880

Includes pump unit, tank unit, personnel shower assembly, M2 Water Heater--all mounted on skids.

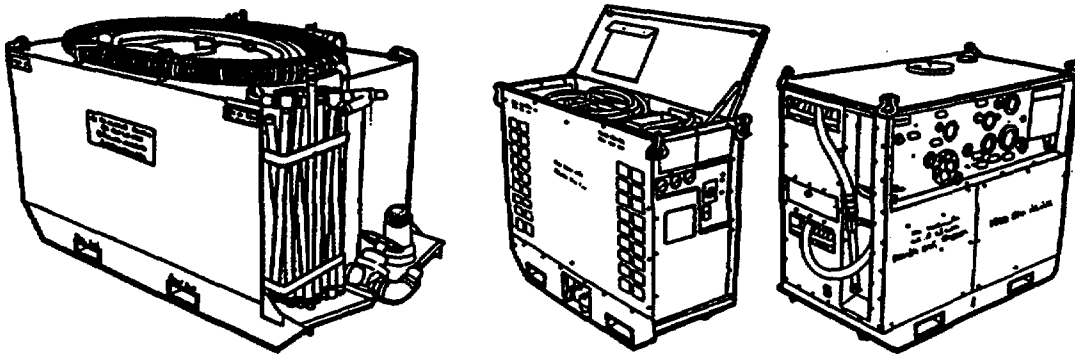
Use

To mix and spray decontaminating agent slurries and solutions and hot, soapy water rinses during field decon operations. May be used for firefighting with water or foam, de-icing operations, vehicle washing, pumping various fluids, and field showers.

Limitations

The apparatus is not authorized for use with defoliants, herbicides, or insecticides.

References: LO 3-4230-209-12, LO 5-2805-259-12,
TM 3-4230-209-12, TM 3-4230-209-20P,
TM 3-4230-209-34, TM 3-4230-209-34P,
TM 3-4230-209-ESC, TM 3-4410-201-12,
TM 3-4410-201-20P, and TM 43-0001-26-1



Item and Description

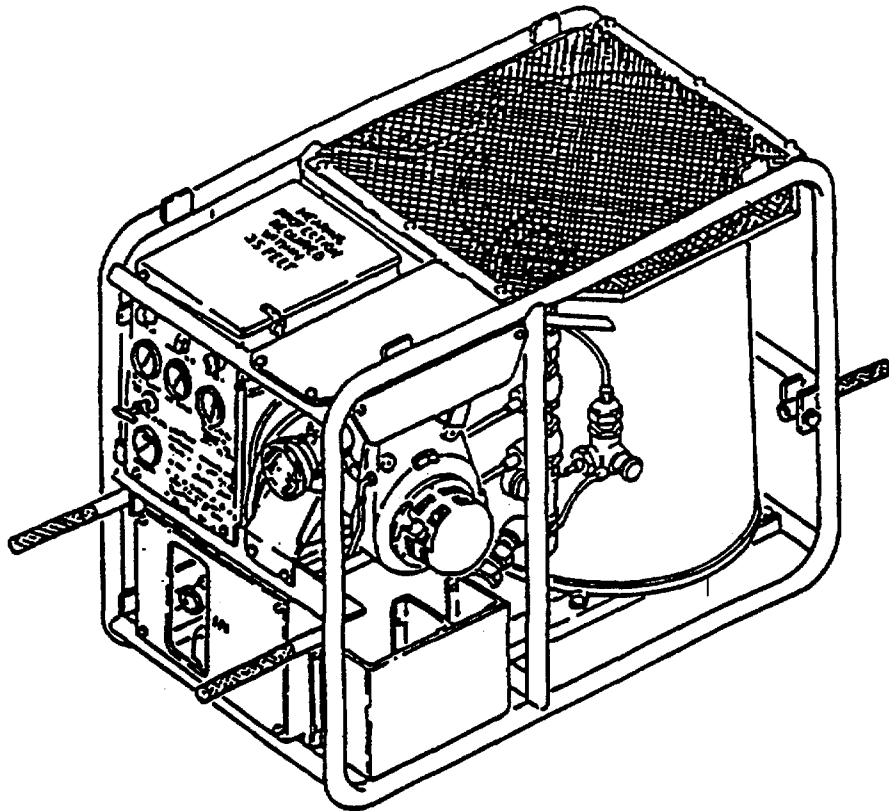
M17 Lightweight Decontamination System (LDS) NSN 423-01-251-8702

The M17 LDS is a portable pump and water heating unit for producing hot water and steam. The system incorporates a 1580-gallon collapsible water tank, two wand assemblies, connecting hoses, and a shower rail.

Use

The M17 LDS is designed for equipment and vehicle operational and thorough decontamination. The system can be used for troop showers.

Reference: TM 3-4230-228-23 & P



Detection -- Individual Level

Item and Description

ABC-M8 Chemical Agent Detector Paper, VGH
NSN 6665-00-050-0529

This paper is issued in a book of 25 sheets perforated for easy removal. A color comparison bar chart is printed on the inside front cover.

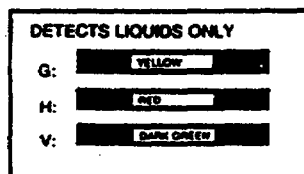
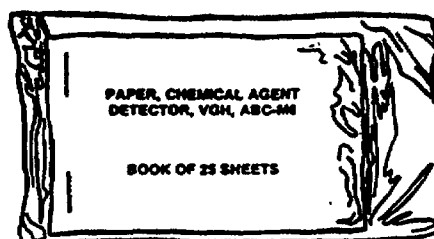
Use

To detect the presence of liquid V, G, and H Chemical Agents.

Limitations

Cannot be used to detect vapors or chemical agents in water. Exposure to high temperatures, DS2, or petroleum products may cause false readings.

References: TM 3-6665-205-10/1, TM 3-6665-205-10/2,
TM 3-6665-254-12, TM 3-6665-268-10,
TM 3-6665-307-10, and TM 43-0001-26-1



Item and Description

M9 Chemical Agent Detector Paper
NSN 6665-01-049-8982

M9 Paper is issued in a 7-ounce dispenser box that contains one 30-foot roll of 2-inch wide detector paper and a plastic storage bag. The paper has an adhesive back for attaching to items.

Use

To detect the presence of liquid V, G, and H Chemical Agents

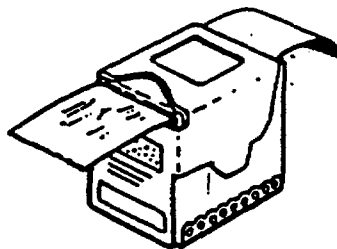
Limitations

M9 Paper can be used in rain, snow, and sleet, but cannot be used to detect vapors or chemical agents in water. It will not stick to dirty, oily, or greasy surfaces. Contamination indications cannot be read under red light or by the color-blind.

The following can cause false readings:

- Temperatures above 125° F (52° C)
- Brake fluid
- Aircraft cleaning compound
- DS2
- Petroleum products
- Insect repellent

Reference: TM 3-6665-311-10



Detection -- Company Level

Item and Description

M8A1 Automatic Chemical Agent Alarm
NSN 6665-01-105-5623

Use

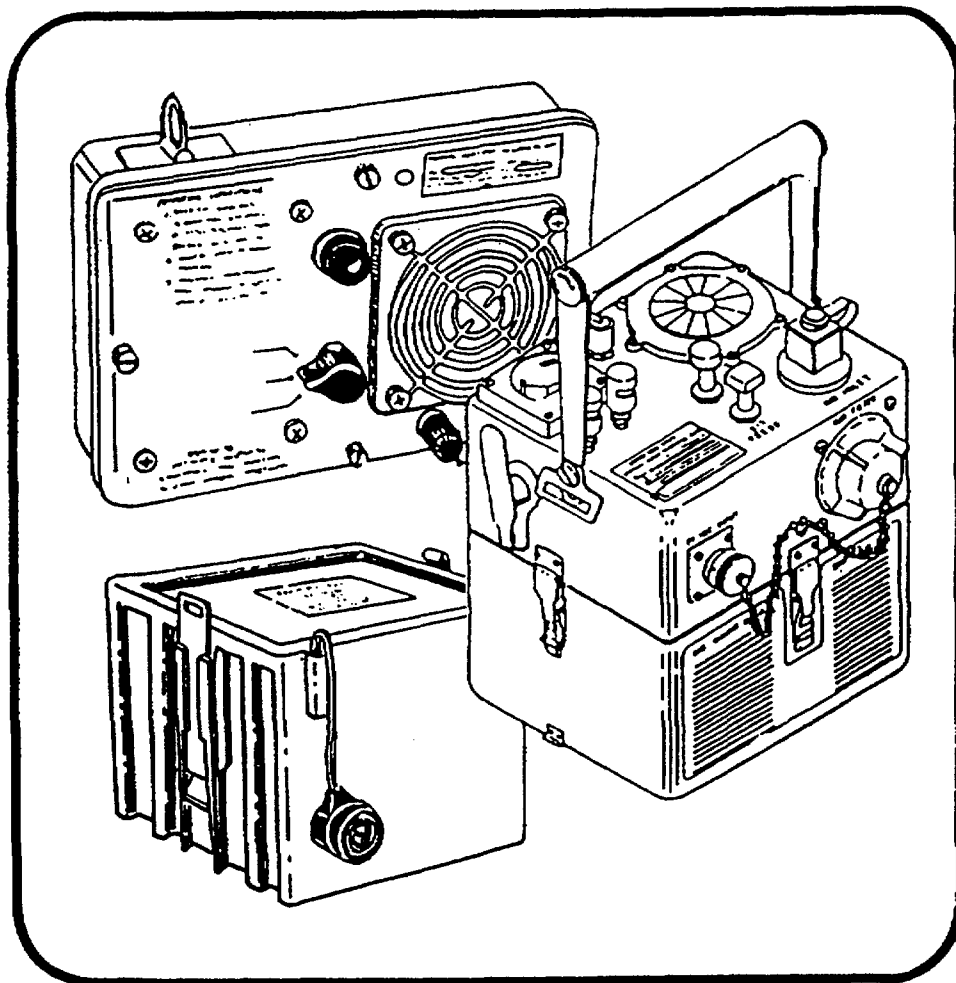
Provides a method of atomically detecting chemical nerve agents in the air and then giving an alarm. The M8A1 can be vehicle mounted, back-packed, or ground emplaced.

Limitations

WARNING

Radiation hazard. Contains Americium (AM 241)

Reference: TM 3-6665-312-12 & P



Item and Description

AN/PDR-27 RADIACmeter (GM Type) of AN/PDR-27 RADIAC Set
NSN 6665-00-543-1435J, NSN 6665-00-865-3456L
NSN 6665-00-961-0846R, NSN 6665-01-080-4418S

The AN/PDR-27 contains a low-range dose rate Geiger-Mueller (G-M) type instrument. It has four range scales and can detect intensities from 0 to 500 cGy per hour.

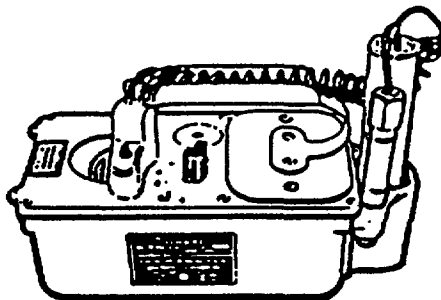
Use

The AN/PDR-27 is used to monitor personnel, food, and equipment

Limitations

Detects Gamma/Beta Radiation. Measures Gamma Radiation. Does not detect Alpha Radiation.

References: TM 11-6665-209-16, TM 11-6665-230-15,
and EE 730-DS-OMI-010-4805



Item and Description

AN/VDR-2 RADIAC Set

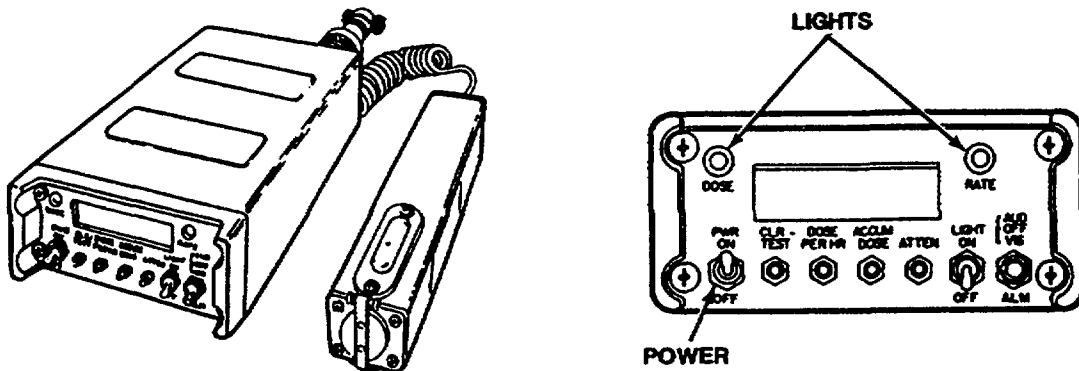
Use

The AN/VDR-2 RADIAC Set is a lightweight, tactical dose rate meter. The system measures Gamma Radiation dose rates from .01 uGy/hr to 100 Gy/hr; detects and displays the level of Beta particle dose rate from 0.01 uGy/hr to 5 cGy/hr; and measures, stores, and displays accumulated dose from 0.01 uGy to 9.99 Gy. The instrument consists of a RADIACmeter with an internal sensor for obtaining dose rates during both mounted and dismounted operations. It has a second sensor housed in a probe and attached to the RADIACmeter with a cable and input connector. It is used for monitoring personnel, supplies, and equipment. The RADIAC Set utilizes a presettable, audible, and visual warning device integral to the RADIACmeter. The system is air transportable and organic to all units.

Limitations

The AN/VDR-2 will be mounted in tactical Army ground vehicles to provide a means for conducting dismounted and vehicular radiological surveys and for performing radiological monitoring of personnel and equipment. It will replace the IM-174 and AN/PDR-27 for most operations.

Reference: TM 11-6665-251-10



Item and Description

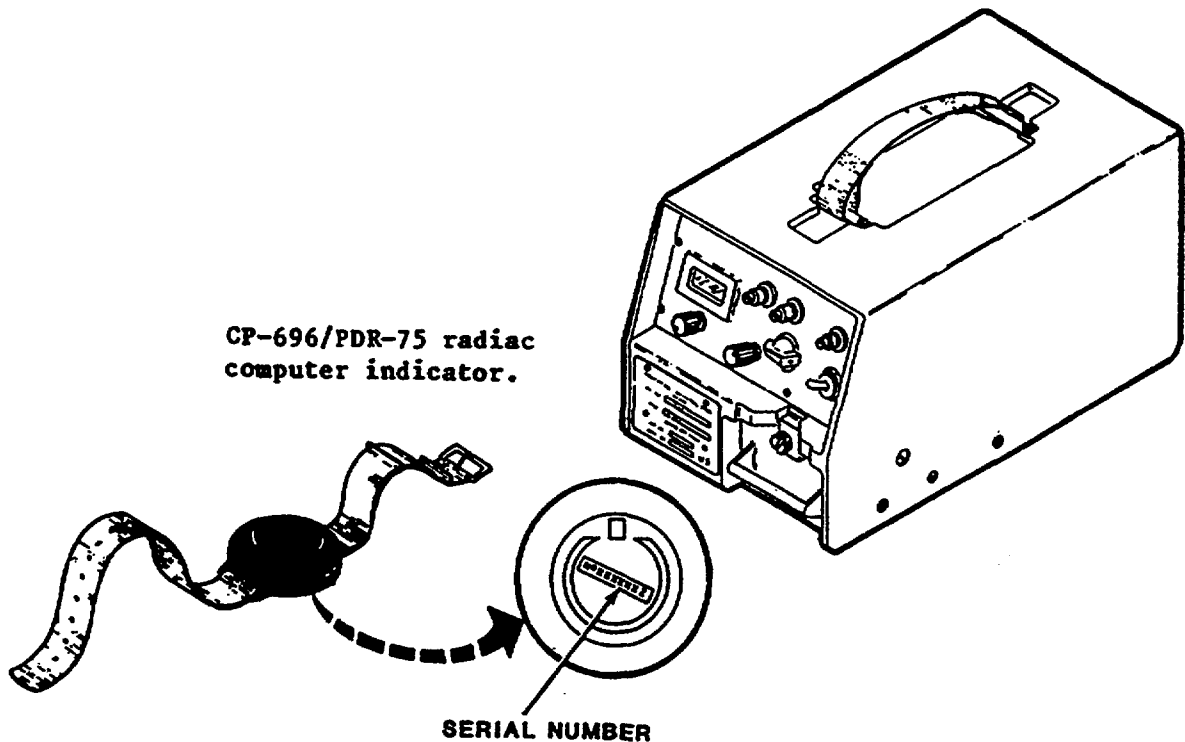
AN/PDR-75 RADIAC Set

The AN/PDR-75 RADIAC Set consists of the CP696/PDR-75 RADIAC Computer Indicator (reader), DT-236/PDR-75 RADIAC Detector (dosimeter), and AN/PDR-75 RADIAC Set. The carrying case, Y8420/PDR-75, is used with but is not considered part of the set. The DT-236 Dosimeter will be issued to every soldier in the theater of operations as a contingency item.

Limitations

Once tactical operations begin, the DT-236 Dosimeter is issued to the theater of operations. The RADIAC computer indicator, CP696/PDR-75, is used to measure the accumulated Neutron and Gamma Radiation dose recorded by the DT-236 Dosimeter. The DT-236 Dosimeter is worn on the wrist by personnel, who may be exposed to radiation from tactical nuclear weapons.

Reference: TM 11-6665-236-12



Item and Description

**Chemical Agent Monitor (CAM)
NSN 6665-01-199-4153**

Use

Used by ground forces to search out areas, to search and locate contamination on personnel, equipment, ship's structures, aircraft and land vehicles, buildings, and terrain, and to monitor the effectiveness of decontamination. CAM can also be used for monitoring collective protection. The CAM responds to nerve and blister agent vapors down to the lowest concentrations that could affect personnel over a short period.

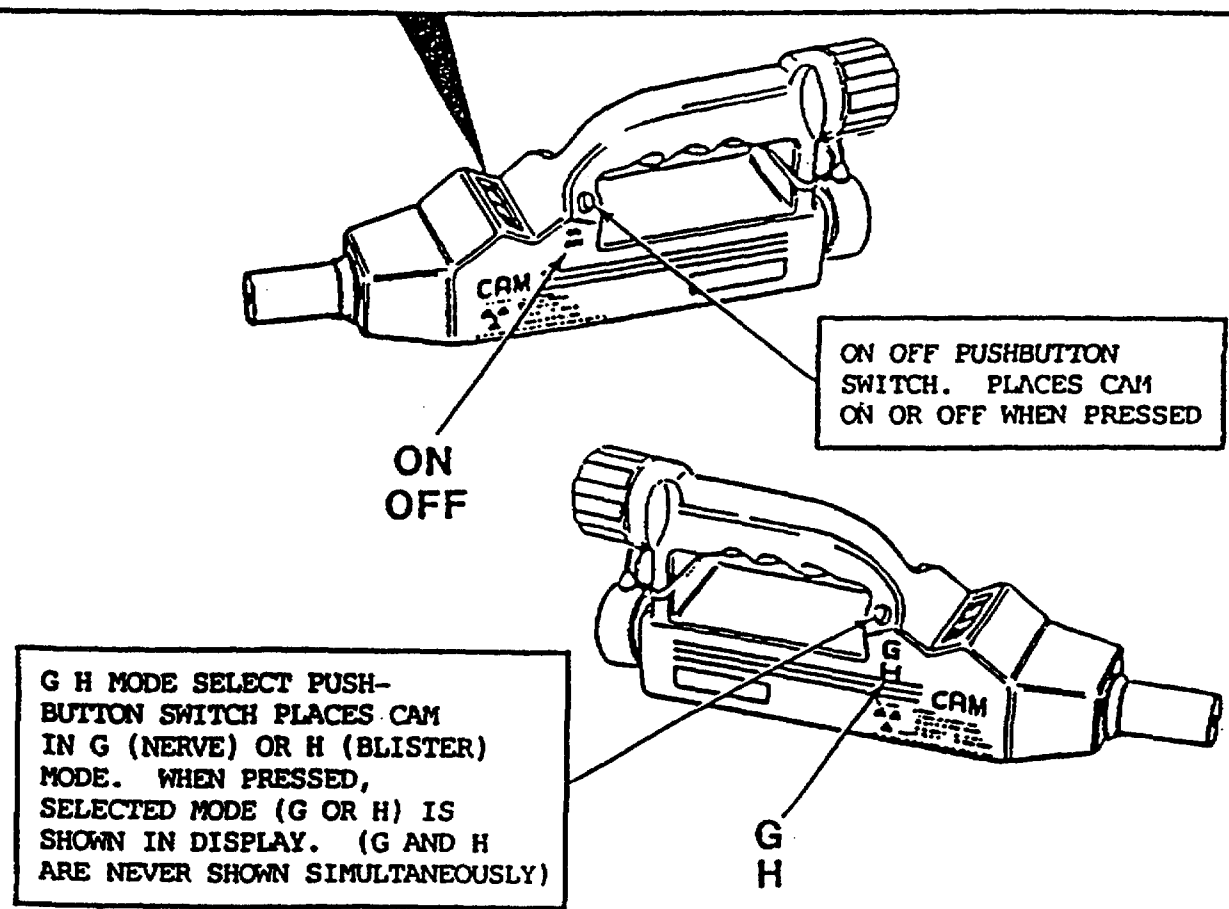
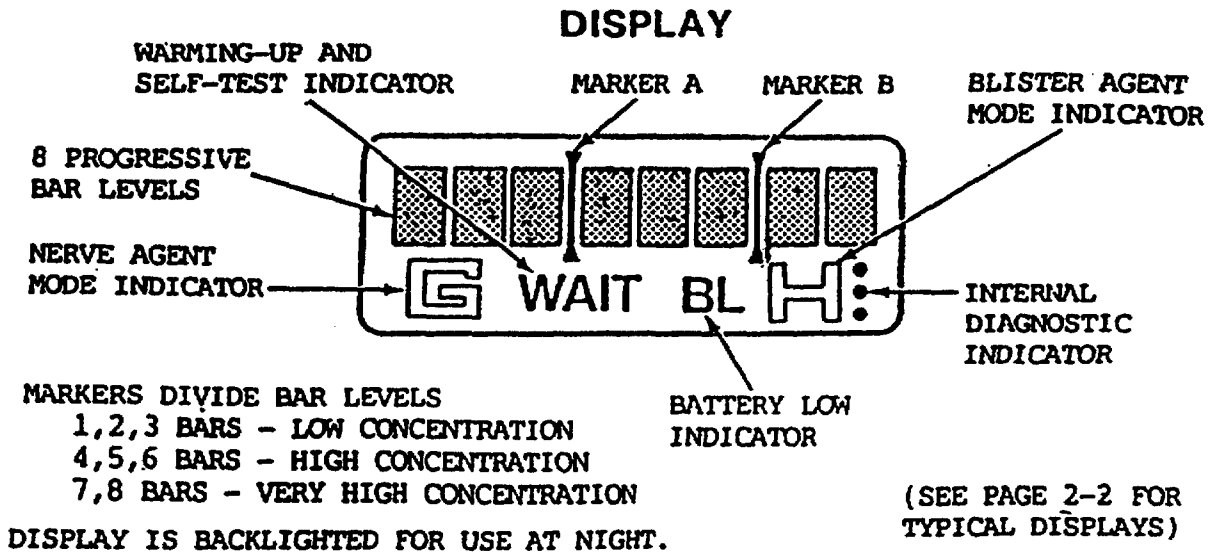
Limitations

WARNING

Radiation hazard

The CAM is a monitor and not a detector. Since it is a monitor, it can become contaminated and overloaded or saturated. The CAM can only report conditions at the front of the inlet probe. It is a point monitor only and cannot give a realistic assessment of the vapor hazard over an area from one position.

Reference: TM 3-6665-327-13 & P



Item and Description

M256A1 Chemical Agent Detector Kit
NSN 6665-01-016-8399

The M256A1 consists of a carrying case, 12 sampler-detectors, instruction cards, and ABC-M8 VGH Chemical Agent Detector Paper.

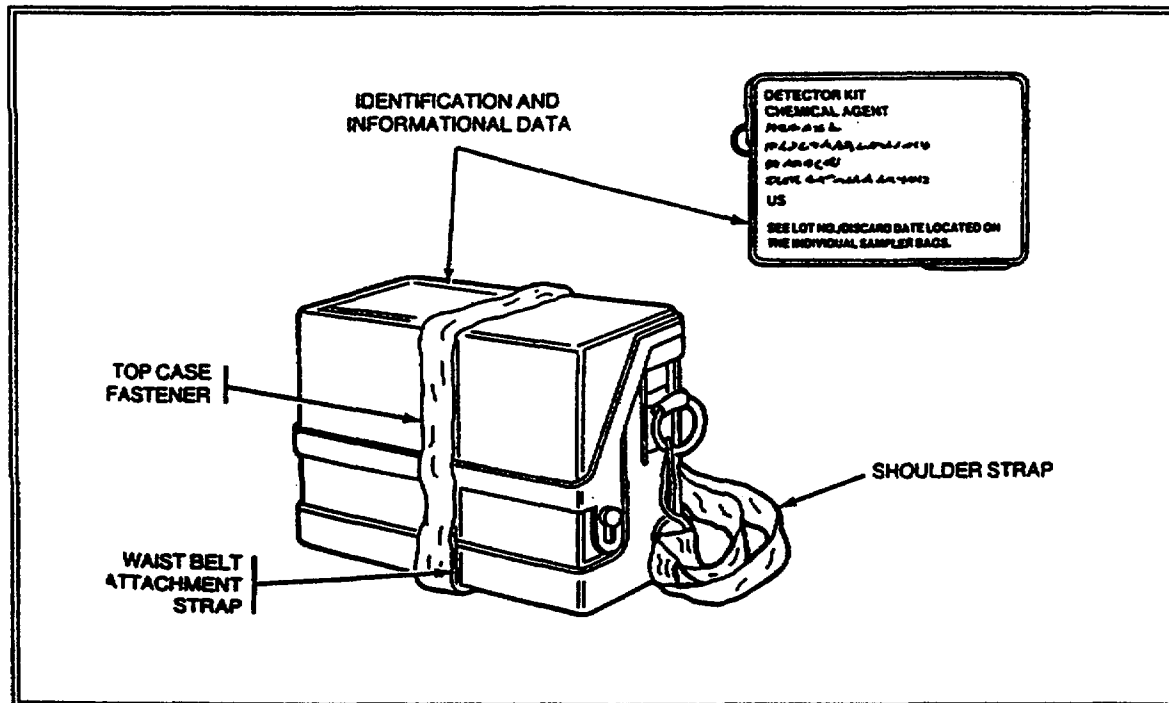
Use

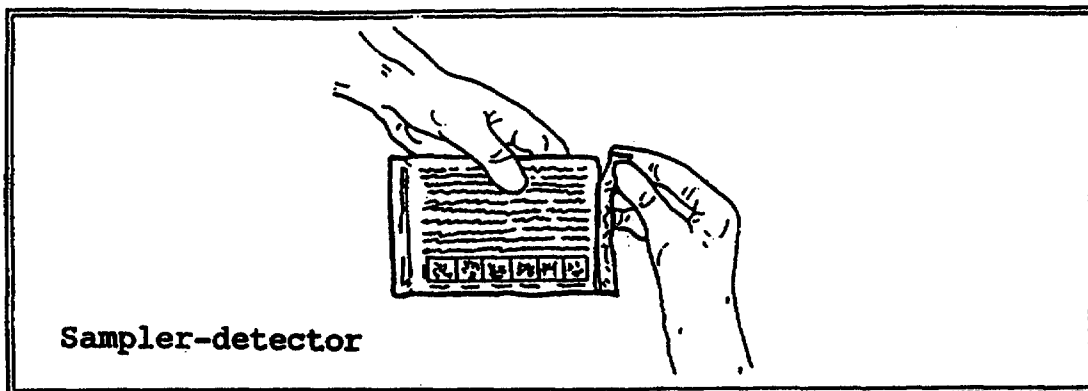
To detect and classify dangerous concentrations of nerve, blister, and blood agents in the air and liquid contamination on exposed surfaces. The M256 Series has T2 Toxin capability.

Limitations

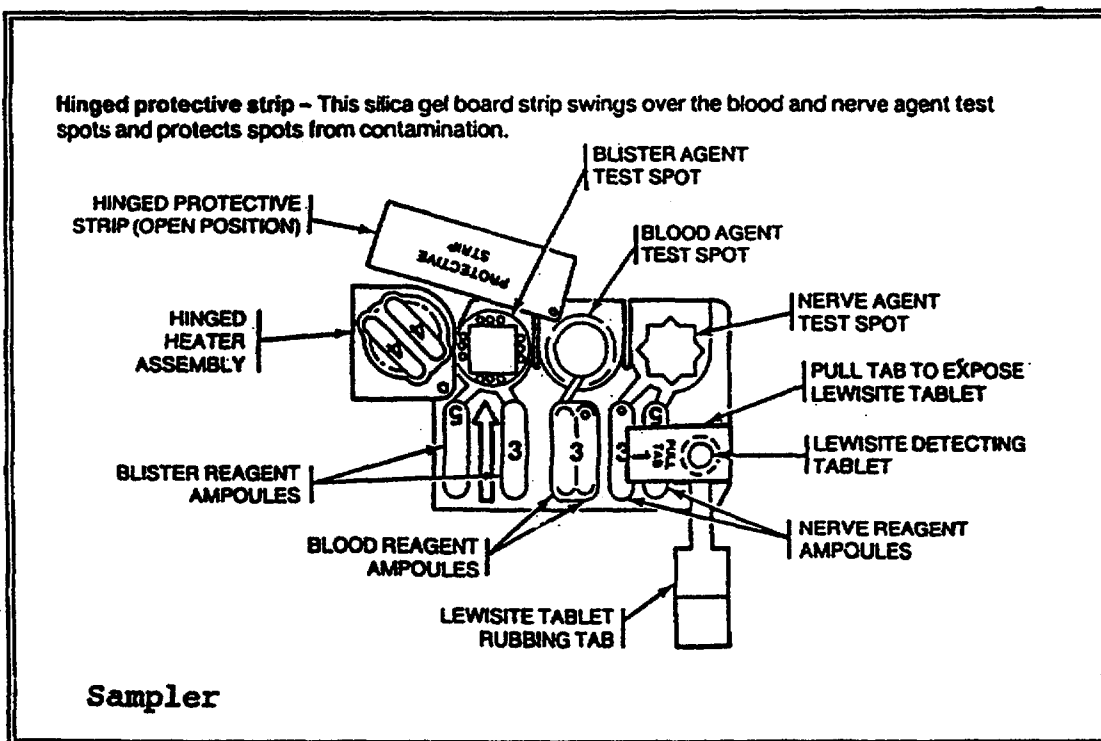
Cannot be used to detect chemical agents in water. In high temperatures, DS 2 and petroleum products may cause false readings. Tests require 20 to 25 minutes. Unit efficiency goes down with temperature. At 25° F, the kit is no longer operable.

References: TM 3-6665-307-10 and TM 43-0001-26-1





Sampler-detector



Sampler

