Radiac Set AN/PDR-77

RADIACS

Description

The AN/PDR-77 is used for nuclear weapons accident response, environmental-level measurement of radiological materials and in monitoring work areas where chemical detectors are stored. It detects and measures alpha and x-ray radiation and also detects beta and gamma radiation. The system incorporates an alpha probe, beta gamma probe, and x-ray probe. The Radiac set has a digital LCD display, is auto ranging, and has settable audio and/or visual alarm thresholds. The Radiac set is the primary Radiac device to support the storage and movement of nuclear weapons, to respond to nuclear accidents, and to maintain Army equipment containing radioactive materials.

Mission

Detect and measure nuclear radiation from nuclear weapons accidents and other sources.

Capabilities

- Measures alpha, beta, gamma, and low-energy X-ray radiation
- Measures environmental levels of radiation
- Measures count rate from 1 cpm to 999,000 cpm
- Replaced An/PDR-56F and AN/PDR-60

Users

US Marine Corps, US Army

Status

Sustainment