



## Radiac Set AN/VDR-2

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#### Description

The AN/VDR-2 is a tactical beta / gamma rate meter that is used for health and safety detection as well as in the battlespace. It is used to perform ground radiological surveys in vehicles or in the dismounted mode by individual soldiers as a hand-held instrument. The set can also provide a quantitative measure of radiation to decontaminate personnel, equipment and supplies. Components of the Radiac set include the Radiac meter IM-243, Probe DT-616 and pouch with strap. Installation kits are available as common table of allowance (CTA) items for installation of the Radiac set in various military vehicles. The set includes an audible and/or visual alarm that interfaces with vehicular power systems and intercoms.



#### Mission

Detect and measure nuclear radiation from fallout and radioisotopes.

#### Capabilities

- Radiological Point Detection
- Rate meter and integrated dose
- Settable audio and visual rate and dose alarms
- Measures dose rate from 0.1 $\mu$ Gy/hr - 230 Gy/hr with an accuracy of 10%
- Gamma energy response - within 15% or less of the calibrated Cs137 response over the range from 80 KeV to 3 MeV
- Measures total dose from 0.1 $\mu$ Gy - 999 Gy
- Detects beta - gives a reading of at least 10 microGy/hr above background when the background is less than 0.8 microGy/hr, and the probe is held one cm. above the surface of water containing a beta emitting isotope concentration of  $3.5 \times 10^{-9}$  curies per cc. of water

#### Users

Reserves, National Guard Bureau, Civil Support Teams, USSOCOM, US Navy, US Army

#### Status

Sustainment

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Point of Contact: Chemical, Biological, Radiological, & Nuclear Information Resource Center (CBRN IRC), CBRN.IRC@us.army.mil,  
Toll Free: 1-800-831-4408, Commercial: (309) 782-7349, DSN: 793-7349, Fax: (309) 782-1919