

PORTABLE NEUTRON REM MONITOR

Model # REM-PUG

FEATURES:

- PORTABLE
- LINEAR RESPONSE
- 4 DECADES COVER 0.1 mRem/h to 2 Rem/h
- FULLY SOLID STATE
- FULLY REGULATED POWER SUPPLY
- PULSE INPUT No Zero Drift
- TRUE REM RESPONSE (LASL-designed Moderator)
- INTERNAL SPEAKER Aural as well as Visual Readout



APPLICATION:

Neutron dose rate monitoring in and about nuclear reactors, neutron sources, neutron generators, customs inspection, etc.

DESCRIPTION:

The **REM-PUG** utilizes an ultra - stable high voltage bias supply for the BF-3 Proportional Neutron Detector. Counts from the detector are amplified, discriminated (to remove gamma components) and shaped to present neutron REM rate information to meter and speaker. The speaker furnishes individual clicks on the first three ranges.

The meter on the **REM-PUG** reads out directly in mRem/h from thermal to 10 MeV. It also detects more energetic neutrons.

The moderator /detector assembly is enclosed in a enameled thin wall spun aluminum shell for easy decontamination and physical protection.

The housing of the instrument package is smoothly finished, attractive, scrubbable enameled aluminum. A 3-1/2 inch, wide viewing angle meter presents 0.2 mRem/h to 2 Rem/h plus battery check marking. Controls include on-off and range switch, speaker on-off volume control screwdriver calibration adjust and push - button battery check switch. Probe connector is BNC low noise Teflon insulated. Speaker is protected by polystyrene moisture seal and aluminum grill.



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM

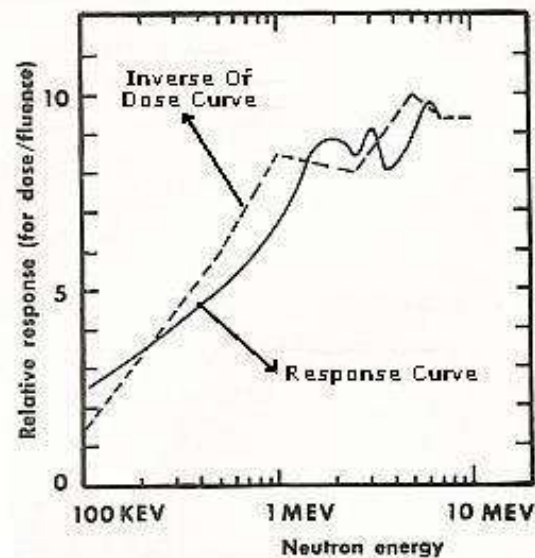
Divisions of  US NUCLEAR CORP.

PORTABLE NEUTRON REM MONITOR

Model # REM-PUG

SPECIFICATIONS:

- **Ranges:** 0-2, 20, 200 mRem/h. 0-2 Rem/h
- **Resolving Time:** 1 μ Sec
- **Gamma Rejection:** 5 R/h
- **Energy Response:** Within $\pm 10\%$ of ICRP curve for most of energy range.
- **Directional Response:** $\pm 10\%$ in uniform field.
- **Time Constant:**
 - Fast 2 second and slow 10 sec.
 - Can be adjusted by user anywhere from 0.2 - 20 Sec.
- **Environmental:**
 - 0-95% Relative Humidity.
 - 10 - 50 $^{\circ}$ C
- **Controls:** On-off range selector, battery check, calibrate, speaker on-off volume.
- **Speaker:** 3-1/2" permanent magnet.
- **Meter:** 3-1/2" taut band wide view. (Ruggedized meter **Optional**).
- **Probe Connection:** BNC low noise Teflon insulated.
- **Batteries:** 9 V transistor batteries -standard or rechargeable. Uses two pieces.
- **Detector:** BF-3 neutron proportional tube T/A Model NT-1310
- **Moderator:** 10" diameter REM response low density polyethylene (LASL design) sphere.
- **Dimensions:** 10" x 10" x 15"
- **Weight:** 14.3 lbs.
- **Accessories:** External battery charger available 115 or 220 VAC 50 / 60 Hz.



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM

Divisions of



US NUCLEAR CORP.