

SUPERIOR UNIVERSAL PORTABLE MONITOR

Model Series- PUG-7; PUG-7A; PUG-7E; PUG-7U

FEATURES:

- FOUR RANGES
- LED PLUS ADJUSTABLE SPEAKER
- 3-1/2" HIGH VISIBILITY PROTECTED METER
- COMPENSATION FOR COINCIDENCE
- SENSITIVE: ACCEPTS BF_3 , He^3 AND PROPORTIONAL IN ADDITION TO GM AND SCINTILLATION PROBES



APPLICATION:

Any alpha, beta, neutron, X-ray or gamma monitoring program, whether aimed at the measurement or control of radiation levels or of contamination, is served by the versatile PUG-7, combined with a T/A probe.

This universal instrument can be used with any P series, Geiger, gas proportional, BF_3 , or He^3 or scintillation probe in the T/A line.

DESCRIPTION:

The **PUG-7** utilizes continuously adjustable regulated high voltage supply 1500V (2,500 volts on **PUG-7A**) to operate GM, scintillation gas proportional, BF_3 , or He^3 detector delivering a one millivolt or above pulse. An adjustable discriminator allows full control over system sensitivity. The pulse input is zener diode protected so that probes may be interchanged without shutting off instrument.

The **PUG-7A** high voltage system provides sufficient output to operate GM tubes up to 3 inch diameter without a loss of efficiency as well as PM tubes with voltage dividers of over 100 mega-ohms total resistance.

Read out on the PUG instrument is in CPM or optionally in SI units or CPS. Additionally, it is provided with a means for mR/hr cards matched to any T/A P series probe. These cards are transparent and adhere to the meter face, thus contamination and radiation levels may be read simultaneously with a variety of probes.

The shell of the instrument is smoothly finished, attractive baked enamel over aluminum case. The cover is machined, black anodized aluminum with white highly visible markings. The meter with a 3-1/2" scale length presents four ranges. 0-500; 5,000; 50,000; 500,000 counts per minute, plus battery check marking.

PUG-7E includes a zero suppress feature for use in high background situations or for scintillation incorporating large crystals. The meter reading can be suppressed at least one full decade to permit reading on a lower range and therefore with greater accuracy than otherwise possible.

PUG-7U is a full system and includes PUG-7, and a Probe - PGS-3 (one inch NaI(Tl) scintillator). The PGS-3 is internal to the case but may be removed and separated on a one meter included cable. Readout is in microR/h (or SI units).



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Divisions of  US NUCLEAR CORP

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SENSITIVITY:

- **Ranges:** 0-500; 5,000; 50,000; 500,000 cpm
Optional: 0-1000; 10,000; 100,000; 1,000,000
- **Optional Read Out:** 0-5 cps; plus mR, uR or R/h (optional SI units) overlay, depending on probe.

SPECIFICATIONS:

- **Indicators:** Panel meter: 0-500 cpm (times range switch multiplier), 0-1,500 volts (0-2,500 V in PUG-7A and PUG-7E). Battery condition: Flashing Red LED and Audible Sonalert. Proportional to count rate.
- **Ranges:** 0-500; 5,000; 50,000; 500,000 cpm (opt 0-5 cps) plus mR, uR or R/h (Optional SI units) overlay, depending on probe.
- **Probe Connector:** BNC (optionally MHV) low noise Teflon insulated.
- **Battery:** 9 volt battery (150-300 hours typical life).
- **Dimensions:** 3-1/4" H, 4-1/4" W, 7-1/4" long excluding probe holder and handle.
- **Weight:** 2 lbs. 4 oz.
- **Shipping Weight:** 5 lbs.

PUG-7 Series:

- **PUG-7A:** Identical to the PUG-7 but with 2500V high voltage
- **PUG-7E:** Identical to the PUG-7 but with zero suppress feature on any range.
- **PUG-7U:** Electronics package is PUG-7. Probe PGS-3, one inch NaI(Tl) scintillator which is internal to the case but may be removed and separated on a one meter included cable. Readout is in microR/h (or SI units).



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