

# ALARMING UNIVERSAL PORTABLE MONITOR

Model # PUG-70

## FEATURES:

- FOUR RANGES
- LED PLUS ADJUSTABLE SPEAKER
- 3-1/2" HIGH VISIBILITY PROTECTED METER
- COMPENSATION FOR COINCIDENCE
- SENSITIVE: LOW AND HIGH ENERGY SCINTILLATION PROBES AS WELL AS GM
- ADJUSTABLE ALARM CAN BE SET AT ANY POINT ON SCALE

**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-70**, combined with a TA probe. This universal instrument can be used with any P series, Geiger, gas proportional, or scintillation probe in the Technical Associates line.



Figure 1: PUG-70

**DESCRIPTION:** The **PUG-70** utilizes continuously adjustable regulated high voltage supply 1500V to operate GM, scintillation, gas proportional, 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 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. The meter on the PUG instrument reads out in CPM or optionally in SI units or CPS. Additionally, it is provided with a means for mR/hr cards matched to any TA 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.

## SPECIFICATIONS:

<b>Indicators:</b>	Panel meter: 0-500 cpm (times range switch multiplier), 0-1,500 volts. Battery condition: Flashing Red LED and Audible Sonalert. Proportional to count rate.
<b>Ranges:</b>	0-500; 5,000; 50,000; 500,000 cpm (opt 0-5 cps) plus <b>Optional</b> mR, uR or R/h (optionally SI units) overlay, depending on probe.
<b>Alarm Controls:</b>	On, Off; Set; Reset, Unlatch.
<b>Probe Connector:</b>	BNC (optionally MHV) low noise Teflon insulated.
<b>Battery:</b>	9 volt transistor battery EverReady 1222 or equivalent (150-300 hours typical life).
<b>Dimensions:</b>	3-1/4" H, 4-1/4" W, 7-1/4" long excluding probe holder and handle.
<b>Weight:</b>	2 lbs. 4 oz. Shipping weight 5 lbs.

**TA** **TECHNICAL ASSOCIATES**  
7051 ETON AVENUE \* CANOGA PARK, CA 91303 TELEPHONE (818) 883-7043 \* FAX(818) 883-6103

\$Revision: 1.1 \$