# GM & PROPORTIONAL PROBES FOR USE WITH PORTABLE INSTRUMENTS

Models - P-13; P-13A; P-15; P-15A; P-23; P-24; P-28; P-28/4; P-1212 P6-LB; P6-A; PN-13; PPG-31; PPG-31T; PPG-41; PPG-41T2

## **DESCRIPTIONS:**

## **GM & PROPORTIONAL PROBES:**

P-13: Side-viewing, energy compensated GM Probe with a 30

mg/cmwall. Energy response is 40 KeV to 1.25 MeV 20%. Housed in high impact plastic, which is splashproof and

rugged. Dimensions: 1-3/8" dia. x 6" long.

P-13A: Identical to the P-13 with Beta window and sliding beta

shield.

P-15: Alpha, Beta, Gamma Probe (GM) for rapid checking of

laboratory bench and equipment surfaces and for checkout of personnel, the **P-15** uses a 1-3/4" mica window diameter, 1.5 mg/cmpancake tube. Background is normally 50 to 60 counts per minute. Extremely sensitive to , and alphas with sufficient energy to penetrate window (Betas > 50 KeV). Window is protected by a 79% open, grill to prevent puncture or other damage while presenting minimum absorption to incoming

radiation. **Detects:** 5 KeV X-Rays and above.

P-15A: Same as P-15 with 1/4" lead shielding.

P-23: Same detector as P6-LB with 3 PIN connector on the probe.

**P6-LB:** Low Background Probe; end window detects alpha, beta and gamma radiation. It offers low background without loss of alpha or beta sensitivity. The 2 cm dia. x 1.5 mg/cmmica window is

protected by a removable, cleanable grill. Primary use of **P6-LB** is for locating surface contamination.

**Dimensions:** 30 mm dia. x 110 mm long excluding cord.

**Operational Voltage:** 500 Volts. **Detects:** 5 KeV X-Rays and above.







P-23 & P6-LB





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



## GM & PROPORTIONAL PROBES FOR USE WITH PORTABLE INSTRUMENTS

Models - P-13; P-13A; P-15; P-15A; P-23; P-24; P-28; P-28/4; P-1212 P6-LB; P6-A; PN-13; PPG-31; PPG-31T; PPG-41; PPG-41T2

### **GM & PROPORTIONAL PROBES:**

**P-24:** Underwater Probe uses gamma sensitive GM tube.

Constructed of anodized, welded aluminum with O-ring seal compressed by stainless steel bolts. The system has been tested by cycling to 60 feet of water pressure. Lifetime of the detector is approximately 10<sup>10</sup> counts.



P-28: "Long Arm" Probe consists of 1-3/4" net diameter

pancake tube mounted at the end of a 40" wand. For rapid checking of laboratory bench and equipment surfaces, floors and walls. Sensitive to soft betas, from C, and to alphas. The 1.5 – 2 mg/cm window is protected by an easy to decontaminate grill. Wand is balanced and weighs only 23 ounces. The angle of the detector can be adjusted, then locked in place.



P-28/4: Same as P-28 but includes 4 pancake tubes in head

for faster more complete monitoring.



P-1212: Alpha, Beta Spot Probe, highly directional, small

window, small volume GM probe designed for locating and measuring sources of alpha and beta radiation. The tube has a 6 mm dia. x 1.5 mg/cmmica window. Low background (typically less than 2 cpm) makes it ideal for measurements of low level sources.

**Dimensions:** 13mm dia. x 137mm long.











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### **GM & PROPORTIONAL PROBES:**

P6-LB: Low Background Probe; end window detects alpha, beta and

gamma radiation. It offers low background without loss of alpha or beta sensitivity. The 2 cm dia. x 1.5 mg/cm mica window is protected by a removable, cleanable grill. Primary use of P6-LB is for locating

surface contamination.

**Dimensions:** 30 mm dia. x 110 mm long excluding cord.

Operational Voltage: 500 Volts. Detects: 5 KeV X-Rays and above.

P6-A: Similar to P6-LB but operates at nominal 900 Volts.

PN-13: **Energy Compensated Neutron Detector** consisting of a **BF-3** 

> proportional neutron tube within a 10" low density polyethylene sphere. Detects neutrons from thermal to above 15 MeV. Sensitivity is

approximately 120 cpm per mRem/hr.

**Dimensions:** 10" W x 10" D x 12" H including stand and hanger.

Close adherence to the ICRP Neutron Response Curve.

**PPG-31:** Flat, Gas Flow Detector. Excellent sensitivity to Beta and/or Alpha

Radiation over an area which measures 6" x 9". Can operate as a

Proportional or GM counter. Weight: 2 1/2lbs.

Proportional Operation: Counting gas is typically 90%

Argon and 10% Methane (P-10 Gas).

Operational Voltage: 1100 Volts. Output Signal is about 2V.

GM Operation: Counting gas is usually 99.05% helium and

0.95% isobutane.

Operational Voltage: 1725 Volts. Output Signal between 2 and

200V.

Alpha Only Count: the Detector is configured as a thin

window proportional counter. Operational Voltage: 1300 Volts.

Optional: One-way inlet and outlet valves allow detectors to be

recharged at intervals for use away from the gas supply.

PPG-31T: Gas Flow Detector has three times the Gamma sensitivity of the

**PPG-31**. The chamber and interior are tungsten plated.

Otherwise similar to the PPG-31.

PPG-41: Identical to the PPG-31 except that it's sensitivity area is 6" x 15".

Weight: 3 1/2 lbs.

PPG-41T: Gas Flow Detector which has three times the Gamma sensitivity

of the PPG-41. The chamber and interior are tungsten plated.

Otherwise similar to the PPG-41.





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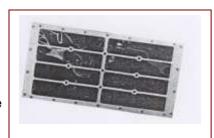
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& P6-A



**PN-13** 



Divisions of UNNUCLEAR CORP

PPG-31, PPG-31T, **PPG-41, PPG-41T**