

# SURFACE SURVEY METER

*Easy contamination monitoring of bench-tops, clothing, and hands*



- *Monitors alpha, beta, and gamma*
- *Built-in pancake detector*
- *Range: 0 to 50,000 cpm, 0 to 15 mR/hr*
- *Three multiplier ranges: x1, x10, x100*
- *Built-in speaker*
- *Anti-saturation circuit prevents false "zero" readings*
- *One-handed operation*

**T**his compact 3-range surface rate meter is equipped with an internal 2-inch diameter pancake GM detector and built-in speaker. The detector's thin window is recessed and protected by an aluminum grill. Its small size, light weight, and one-hand operation make this unit an ideal tool for surveying bench tops and other surfaces, and for checking hands and clothing for radioactive contamination. The meter face reads in both cpm and mR/h. Anti-saturation circuitry keeps meter needle at full scale in high radiation fields.

#### **SPECIFICATIONS:**

**Meter Dial:** 2.5" (6 cm) rectangular  
**Ranges:** Three linear: 0-500; 0-5,000; 0-50,000 cpm (0-0.15; 0-1.5; 0-15 mR/h)  
**Switch Positions:** Off, Battery Test, X100, X10, X1  
**Audio:** Internal speaker  
**Detector:** Halogen-quenched pancake GM tube  
**Diameter:** 2" (5 cm)  
**Window Diameter:** 1.75" (4.5 cm)  
**Window Thickness:** 1.5 mg/cm<sup>2</sup>  
**Background:** Typical 50 cpm  
**Efficiency:** 100% for all betas and alphas that have the energy to penetrate the thin window  
**Gamma Sensitivity:** Nominal is 150 cpm/mR/h (based on Cs 137)  
**Calibration:** Single master calibration potentiometer, individual potentiometers for each range  
**Voltage:** 900V nominal  
**Current Drain:** 3 mA typical  
**Power:** 9-volt battery (Eveready 1222 carbon, E146X mercury, or equivalent)  
**Battery Life:** Typically 100 hours under normal operation  
**Feet:** Neoprene feet for placement on surface without contaminating bottom surface of unit  
**Handle:** Swivel type, polished anodized aluminum  
**Dimensions:** 3" w x 5.25" l x 2.25" h (8 x 13 x 6 cm) excluding meter and handle  
**Weight:** 22 oz (625 g)

**069-310** Survey Meter, Surface

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