



Model 14C 5-Decade G-M Survey Meter

The Model 14C survey meter features an internal energy compensated detector with a 0 - 2000 mR/h range to satisfy the 1 R/h requirement for Nuclear Medicine departments. It has a connector for external GM and scintillation probes for contamination surveys and searching for lost seed sources. A built-in Unimorph speaker provides an audible indication of changing radiation rates.

Specifications

Model 14C 5-Decade G-M Survey Meter

- Ranges:
- External probes: 0 - 0.2 mR/h, 0 - 2 mR/h, 0 - 20 mR/h, 0 - 200 mR/h
 - Internal detector: 0 - 2000 mR/h
 - Meter: dual scale, 0 - 2 mR/h, 0 - 5 k cpm, BAT TEST
 - Time constant: FAST (4 sec) or SLOW (22 sec), for 90% of final reading, selected by a toggle switch
 - Reset: push to zero after overrange exposure
 - Energy response: Internal: 60 keV - 3 MeV ±15%
 - Probe connector: C standard, BNC, SHV, MHV, or UHF available
 - Construction: cast and drawn aluminum with beige finish
 - Power: two D-cells, 600 hour typical life
 - Dimensions: 8.9 cm x 16.5 cm x 21.6 cm (3.5 in x 6.5 in x 8.5 in)
 - Weight: 1.6 kg (3.6 lbs)

External Probes

Model 44-6, Stainless steel wall G-M Detector

- Radiation detected: beta, gamma, x-ray
- Efficiency: 1200 cpm/mR/h for ¹³⁷Cs gamma
- Beta cut-off: approximately 200 keV
- Detector: halogen quenched G-M tube, 30 mg/cm² stainless steel wall
- Operating voltage: 900 V
- Construction: stainless steel, rotary beta shield, 1000 mg/cm²
- Dimensions: 3.02 cm diameter x 15.2 cm length (1.19 in x 6 in)

Model 44-7, Thin end window G-M Detector

- Radiation detected: alpha, beta, gamma, x-ray
- Efficiency: 2100 cpm/mR/h for ¹³⁷Cs gamma, 2% for ¹⁴C, 10% for ⁹⁰Sr, 7% for ⁹⁹Tc
- Detector: 1.7 mg/cm² mica window, 5cm² area, stainless steel protective screen
- Operating voltage: 900 V
- Construction: anodized aluminum housing
- Dimensions: 4.6 cm diameter x 14.7 cm length (1.8 in x 5.8 in)

Model 44-9, Pancake G-M Detector

- Radiation detected: alpha, beta, gamma, x-ray
- Efficiency: 3300 cpm/mR/h for ¹³⁷Cs gamma, 5% for ¹⁴C, 22% for 90 Sr, 19% for ⁹⁹Tc, 32% for ³²P, alpha 15%
- Detector: 1.7 mg/cm² mica window, 12.2 cm² area, stainless steel protective screen