

Model 14C Survey Meter

Pancake GM Probe / Dose Compensation Filter



Ideal for RA-223

The Model 14C Survey Meter meets the essential monitoring and surveying needs of most nuclear medicine facilities. This meter is capable of reading Alpha, Beta and Gamma emissions. The Pancake GM Probe with removable Energy Compensation Filter facilitates measuring Ambient Equivalent Dose (Sieverts).

Application: Alpha, Beta and Gamma surveying
Energy compensated GM (used with x 1000 scale only)
Internal Detector: Range 0-20 mSv/hr (0-2000 mR/hr)
Sensitivity 200 cpm per mR/hr
Compatible External Detectors: Any GM or Scintillation
operating on 900 VDC

Detector Channels:

External: x0.1 through x100 range settings
Internal GM: x1000 setting

Energy Response: within 15% of true value between 60 keV-3 MeV
(internal detector only)

Linearity: reading within 10% of true value with detector connected
Meter Dial: 0-2 mR/hr, 0-5 kcpm, BAT TEST (others available)
Meter: 6.4 cm (2.5 in) arc, 1 mA analog type
Rotary Selector Switch: Switches between Off,

Ranges: x0.1, x1, x10, x100, x1000
Response Switch: Toggles between FAST (4 sec) or SLOW (22 sec)
from 10% to 90% of final reading

Controls:

Reset Push Button: Zeroes meter
Battery Push Button: Checks battery status
Audio Switch: Audio on/off, built-in unimorph speaker,
greater than 60 dB at 0.6 meters (2 ft)

051-045 Model 14C Survey Meter with Pancake GM Detector
with Dose Compensation Filter

*Includes: Internal Energy-Compensated GM Detector,
External Pancake GM Probe with
Dose Compensation Filter, Cable*

051-196 Check Source Cs-137 1.0 μ Ci

051-197 Check Source With Stick On Holder, Cs-137 0.25 μ Ci

051-166 Check Source Holder

High Voltage: 900 Vdc
Threshold: -40 mV to 10 mV
Temperature Range: -20 to 50°C (-4 to 122° F)
Relative Humidity: < 95%
Power: 2 each "D" cell batteries
Battery Life: Typically greater than 2000 hours
Construction: Cast and drawn aluminum with beige powder coat
Connector: Series "C" (others available)
Size: 6.5" H x 3.5" W x 8.5" L
Weight: 3.5 lb (including batteries)

Specifications: Pancake GM Probe w/ Dose Compensation Filter

Indicated Use: Alpha, Beta, and Gamma surveying; sample counting
Detector: Pancake-type halogen quenched GM
Window: 1.7 \pm 0.3 mg/cm² mica, protected by a stainless steel screen
Window Area: 15.5 cm² Active, 12.3 cm² Open
Efficiency (4pi): 5% - C-14, 22% - Sr-90/Y-90, 19% - Tc-99, 32% - P-32,
15% - Pu-239, 0.2% - I-125, \leq 1% - 99mTc
Dimensions: 1.8" H x 2.7" W x 10.7" L
Weight: 1 lb

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