

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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