

Model 14C Survey Meter



The Model 14C General Purpose Survey Meter features a 5-range analog ratemeter and operates two detectors; a built-in internal GM Detector (0-2000 mR/hr) and an external GM or Scintillation Detector. The cast aluminum housing, with its separate battery compartment and accompanying metal handle, offer an industrial robustness and quality that promotes long-lasting protection and instrument life. The front panel controls include a rotary switch for selecting the five-decade range and instrument shut-off, an audio on/off switch, a fast/slow response switch, a high-voltage display button and a battery test button. A 39" straight type detector cable with "C" style connector is included.

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

- 051-016 Model 14C Survey Meter, only
Probe not included, see page 131
- 051-013 Model 14C + 44-9 Pancake Probe
(check source & holder not included)
- 051-014 Model 14C + 44-7 End Window Probe
(check source & holder not included)
- 051-4438 Model 14C + 44-38 Energy Comp Probe
(check source & holder not included)
- 051-196 Check Source Cs-137 1.0 µCi
- 051-197 Check Source With Stick On Holder
Cs-137 0.25 µCi
- 051-166 Check Source Holder

Model 3 Survey Meter



The Model 3 General Purpose Survey Meter features a 4-range analog ratemeter and supports GM & Scintillation Type Detectors. Known for its accuracy and long-lasting dependability, it comes in a variety of measurement ranges and units to support the external radiation detector selected. The cast aluminum instrument housing, with its separate battery compartment and accompanying metal handle, offer an industrial robustness and quality that promote long-lasting protection and instrument life. The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test, an audio on/off switch, a fast/slow response switch, and a count reset button. A 39" straight type detector cable with "C" style connector is included.

Application: Alpha, Beta and Gamma surveying
Compatible Detectors: GM, Scintillation
Linearity: reading within 10% of true value with detector connected
 Meter Dial: 0-2 mR/hr, or 0-500 kcpm, BAT TEST (others available)
 Meter: 6.4 cm (2.5 in) arc, 1 mA analog type
Controls:
 Rotary Selector Switch: Switches between instrument Off, Battery check,
 Range: x0.1, x1, x10, x100
 Response Switch: Toggles between FAST (4 sec) or SLOW (22 sec)
 from 10% to 90% of final reading
 Reset: Push Button: Zeroes meter
 Audio Switch: Audio on/off, built-in unimorph speaker,
 60 dB at 0.6 meters
Calibration Controls: Accessible from front of instrument
 (protective cover provided)
High Voltage: Adjustable from 400 to 1500 Vdc
Threshold: Fixed at -35 mV ± 10 mV
Temperature Range: -20 to 50° C (-4 to 122° F)
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" D
Weight: 3.5 lb (including batteries)

- 051-003 Model 3 Survey Meter, only
Probe not included, see page 111
- 051-196 Check Source Cs-137 1.0 µCi
- 051-197 Check Source With Stick On Holder
Cs-137 0.25 µCi
- 051-166 Check Source Holder

Select Probe from page 116