

Surveyor 2000™ Portable Survey Meter

The Surveyor 2000 model is a portable survey meter designed for gamma and x-ray with internal probe; plus measurements of alpha, beta and gamma count-rate with the appropriate external GM probe.

The Surveyor 2000 combines an internal energy-compensated GM tube (for the 2 R/h range) with a choice of external GM probes to meet or exceed the survey instrument requirements of 10CFR 35 for Nuclear Medicine use.

The unit checks HV to insure the detector is operating at its proper voltage. An anti-saturation circuit keeps the meter reading off scale when the detector saturates in a high radiation field. Automatic dead time compensation assures the accuracy of higher exposure rate reading for linear response on all ranges.

The Surveyor 2000 is the perfect Survey Meter for your Nuclear Medicine Department and eliminates the need for two survey instruments for high and low radiation readings.



FEATURES

- ★ Alpha, beta, gamma and x-ray detection
- ★ Internal GM tube and optional external probe
- ★ Anti-saturation circuit
- ★ Built-in audio
- ★ Counts up to 2000 mR/h
- ★ Exceeds 10CFR35 requirements
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SPECIFICATIONS

- Radiation Detected: Alpha, beta, gamma, and x-ray depending upon detector used.
- Detector: Choice of GM probes, external; GM tube, internal
- Range: Five linear ranges of:
 - 0-0.2 mR/h 0-240 cpm
 - 0.2 mR/h 0-2,400 cpm
 - 0-20 mR/h 0-24,000 cpm
 - 0-200 mR/h 0-240,000 cpm
 - 0-2000 mR/h (internal detector)
- Accuracy: Within 10% of reading for Cs-137 when calibrated according to NRC Reg. Guide 10.8
- Energy Response: ±20% from 40 keV to 1.2 MeV (internal detector)
- High Voltage: Electronically stabilized, factory set at 900 V. Contains self-test to verify detector HV power supply.
- Warm-up Time: None
- Saturation: Typically > 1000R/h on all ranges for most GM probes; (>5 R/h for pancake GM probes)
- Response Time: Switch-selectable, optimized for each range, 0-90% of final reading as follows:
 - Range Fast Slow
 - X0.1 6 sec 25 sec
 - X1 2 sec 6 sec
 - X10 1 sec 3 sec
 - X100 <1 sec 1 sec
 - X1000 <1 sec 1 sec
- Size: 4.25" x 8" x 6.8" (10.8 x 20.3 x 17.3 cm) including handle and probe clip.
- Weight: 2.2 pounds (1 kg) excluding external probe

ITEM #	DESCRIPTION
5250-0019	Surveyor 2000 Rate Meter