

MICROPROCESSOR SURVEY METER

The GSM-506 Survey Meter provides an ideal solution for radiation measurement in your nuclear medicine lab. Microprocessor-based digital circuitry is stable and reliable. The ruggedized analog meter offers automatic ranging in a familiar, easy to read display of contamination and dose rate.

While the GSM-506 is capable of accepting the wide variety of Johnson probes, we present here the three most popular options for nuclear medicine and PET labs:

The GP-200 End-window probe has a thin end window with 90% open stainless steel screen for alpha, beta and gamma contamination monitoring & gamma dose measurement to 200 mR/hr (based on ¹³⁷Cs calibration).

The HP-265 Pancake probe is an excellent general purpose alpha, beta, and gamma detector in a convenient form factor ideal for surveying packages and surfaces.

Both GM probes have long life, halogen-quenched tubes and are dose-linearized by the GSM-506.

The MRSP-1 Micro R is a 1" x 1" tissue equivalent plastic scintillator. It is a high-sensitivity detector with an ultra-wide gamma energy response. Can be used as an inexpensive laundry monitor system.

SPECIFICATIONS:

Ranges (internal): 0-2, 0-20, 0-200 and 0-2,000 mR/hr
0-500, 0-5,000, 0-50,000 and 0-500,000 cpm

Separate calibration controls for each range and each probe (cpm & gamma dose)

Panel controls: OFF

MEASURE, INTEGRATE for each detector
CPM / DOSE
SPEAKER / ZERO

Panel meter: High-torque 3.5" with led indicators for range, probe saturation, HV out of range, and low battery

Calibration: Internal detector: 0-2 R/hr - cpm & dose (Based on ¹³⁷Cs calibration), cpm dead time compensated, dose linearized.

External probe: cpm & gamma dose depending on probe

High voltage: 300 - 1300 VDC ±1% stability
(each probe can be adjusted to a different HV).

Audio output: High efficiency piezoelectric, water & solvent proof

Power supply: Six "AA" Alkaline batteries

Finish: Polyurethane coated aluminum housing

Weight: 2¼ pounds (1 kg) including batteries

Dimensions: 5½" (14 cm) H X 4" (10 cm) W X 7" (18 cm)

Environmental: -20°C — 60°C

5% —95% RH non condensing-IPX4



- *Auto-ranging analog readout*
- *Microprocessor-based digital circuitry*
- *Linearizes dose response of detectors*
- *Internal GM probe measures to 2R/hr*
- *Switch-selectable CPM or Dose*
- *Supports all Johnson GM and Scintillation probes*
- *Nylon coated stainless steel probe clip*
- *Heavy duty cast aluminum case*

CE Tested. Meets applicable standards.



MRSP-1 Micro R Scintillation Probe:

Range: 0—10,000 μ R/Hr
Sensitivity: 60 CPM/ μ R/hr (137 Cs)
Energy Response: 15KeV — 2MeV gamma
Dead Time: <5 μ S
Operating Voltage: 900 VDC
Dimensions: 1.875" (4.76 cm) diameter x 6" (15.24 cm)
Weight: 8 ounces (.23 kg)



GP-200 End Window GM Probe:

Range: 0—200 mR/Hr (without linearization)
Sensitivity: 2500 CPM/mR/hr (137 Cs)
Energy Response: 3.5MeV alpha
Dead Time: 150 μ S
Operating Voltage: 900 VDC
Dimensions: 1.2" (3 cm) diameter x 5.5" (14 cm)
Weight: 8 ounces (.23 kg)



HP-265 Pancake GM Probe:

Range: 0—200 mR/Hr (without linearization)
Sensitivity: 2500 CPM/mR/hr (137 Cs)
Energy Response: 3.5MeV alpha, 100KeV beta,
20KeV — 2MeV gamma
Dead Time: 20 μ S
Operating Voltage: 900 VDC
Dimensions: 2.75" (7 cm) diameter x 11" (28 cm)
Weight: 16 ounces (.46 kg)

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| GSM-506GP | Survey Meter Package | \$1,595.00 |
| | <i>Includes MRSP-1 Micro R Scintillation probe, mounted Cs137 check source, cable, manual, and calibration certificate.</i> | |
| GSM-506EW | Survey Meter Package | 1,220.00 |
| | <i>Includes GP-200 End Window probe, mounted Cs137 check source, cable, manual, and calibration certificate.</i> | |
| GSM-506HP | Survey Meter Package | 1,195.00 |
| | <i>Includes HP-265 Pancake probe, mounted Cs137 check source, cable, manual, and calibration certificate.</i> | |

Prices subject to change without notice.

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