

DSM-506/HP-265 Plus Internal GM Detector

The DSM-506 combined with the HP-265 gives the user great flexibility when surveying for contamination from alpha, beta or gamma isotopes plus the ability to survey for gamma dose rates up to 2000 mR/hr. The rate meter boasts an oversized digital display and has a unique counts to dose capability allowing the user to quickly change from count rate to dose rate and back by simply flipping a toggle switch. Other features include a scaler for counts per unit of time, display error indications and audible/visual ALARMS.

FEATURES:

- ◆ SURVEY FOR ALPHA, BETA AND GAMMA CONTAMINATION
- ◆ SURVEY FOR GAMMA DOSE RATES UP TO 2000 mR/hr
- ◆ LARGE DIGITAL DISPLAY
- ◆ AUTO RANGING UNITS
- ◆ DUAL MODE CAPACITY FOR DOSE RATE & COUNT RATE
- ◆ AUDIBLE/VISUAL ALARMS



DSM-506 SPECIFICATIONS:

Dose/Counts Switch	Change Dose Rate to Count Rate by Toggling an External Switch
Display	LCD 4-Digit x .75" LCD w/LED Backlight
Internal Detector	Energy Compensated GM Tube
Energy Range	60 keV – 3 MeV
Internal Detector Dose Range	50 µR/hr - 2000 mR/hr or equivalent Sv/hr
External Probe Connector	All Johnson Probes
CPM Range	0-999.9 Kcpm or Kcps
Probe Linearization	Internal adjust for calibration constant and dead time
Scaler Ranges	0-999.9 Kcounts
Scaler Count Time Ranges	10-2550 Seconds (10 second increments)
Alarms	5-95% of Range
Diagnostics	Low Battery, Over-range - Audible & Visual Alarms
Range Adjustment	Auto-Ranging All Scales
Electrical Non-Linearity	< 5% Full Scale
Response Time	Fast - 10-2550 Seconds (adjustable) / Slow 10-250 seconds (adjustable)
Drift	< 5%
Environmental	-20°F[-28°C] to 140°F[60°C] 5-95% RH IPX4 Housing
High Voltage Adjustable	400-1250 VDC Regulation +-1%
Battery	6 - "AA" Alkaline (nominal 200hrs Operation)
Dimensions	5.25"(14cm) H X 4" (10cm) W x 7"(18cm) L
Weight	2.5 lbs. (1.2 Kilos)

HP-265 SPECIFICATIONS:

General Use	Alpha, Beta, Gamma Detection
Detector Type	Halogen-Quenched GM Pancake Tube
CPM Range	0-999.9 Kcpm or Kcps
Dose Range	0-200 mR/hr (Cs¹³⁷) - Requires linearization above 50 mR/hr
Window	1.7 ± 0.3 mg/cm² mica, protected by a CopperI screen (79% open)
Window Area	Active – 15.5 cm ² (2.4 in ²) Open – 12.3 cm ² (1.9 in ²)
Efficiency (4π)	C ¹⁴ – 5%, SrY ⁹⁰ – 22%, Tc ⁹⁹ – 19%, P ³² - 32%
Energy Response	Energy Dependent
Sensitivity (Cs ¹³⁷ gamma)	≈ 3300 cpm/mR/hr
Operating Voltage	900 vdc
Dead Time	80 µsec
Normal Background	≈ 60 cpm
Environmental	-20°F [-28°C] to 140°F [60°C] 5-95% RH
Connector	BNC (other types available)
Dimensions	2.74" (7cm) Dia x 11" (28cm) L
Weight	1lbs (0.45 kg)