

# DSM-503

Digital Survey Meter w/Internal GM



The DSM-503 Survey meter is designed as the perfect application for general users of radiation measurement and monitoring. Its mid-range internal detector allows for the perfect combination of accuracy, simplicity and functionality for the reliable and consistent measurement of dose.



Auto-Ranging Display

Large Easy-to-read Digital Display

Dual Probe Capability for both Dose and Contamination Monitoring



Dose/CPM Switch	External Dose/CPM Switch
Input Sensitivity	0.05V
Display-LCD	4-Digit x .75" LCD w/LED Backlight
LCD Refresh Rate	0.8-3.0 Sec in 0.2 Sec increments - adjustable
Dose Ranges	100 $\mu$ R/hr-10,000 mR/hr / 1.0 $\mu$ Sv – 100.0 mSv
CPM Ranges	0-999.9 Kcpm / 0-999.9 Kcps
Probe Linearization	Internal adjust for cal constant and dead time
Scaler Ranges	0-999.9 Kcpm
Scaler Count Time Ranges	10-2550 Seconds (10 second increments)
Alarms (optional)	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 Constant – 90% FS	Fast - 10-250 (adjustable)   Slow 10-250 (adjustable)
Drift	< 5%
Environmental	-20°F[-28°C] to 140°F[60°C]   5-95% RH IPX4 Housing
High Voltage	Adjustable 300-1500 VDC   Regulation +-1%
Battery	6 - "AA" Alkaline (nominal 100hrs Operation)
Circuitry	Digital Microprocessor Controlled
Dimentions	5.25"(14cm) H X 4" (10cm) W x 7"(18cm) L
Weight	2.5 lbs. (1.2 Kilos)
Construction	Rugged, Heavy Duty Cast Aluminum & Stainless Steel
Detector	Internal GM
Sensitivity	60 KeV – 2 MeV

Handheld Meters

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