

ERK-525

**Emergency Response Kit
Survey Meter w/dual Probes**



ERK 525 Kit Includes:
 DSM 525 • HP 265 Probe
 MSRP-1 Probe • Carrying Case



DSM 525 SPECIFICATIONS

Input Sensitivity	0.05V
Dose/CPM Switchable	External Dose / CPM Switch
Display-LCD	CPM, KCPM, CPS, uR/hr,mR/hr,R/hr,uSv/hr,mSv/hr,Sv/hr
LCD Refresh Rate	0.8 - 3.0 Sec adjustable
Display Backlight	push button, 30 Second auto off
Scaler Count Time Ranges	10-2550 Seconds (10 second increments)
Probe 1 Ranges	0-999.9 R/hr 0-999.9 Kcpm
Probe 2 Ranges	0-999.9 R/hr 0-999.9 Kcpm
Scaler Ranges	0-9,999 Kcpm
Alarms (optional)	5-95% of full scale for Dose & CPM
Diagnostics	Low Battery, Overrange - Audible and Visual Alarms
Over Range Alarm	Adjustable 10% above max range - dose calibration only
Electrical Non-Linearity	< 5%
Response Time	Fast - 10-2550 Seconds (adjustable) Slow 10-250 seconds (adjustable)
Drift	<5%
Environmental	-20° F[-28° C]-140° F[60° C] 5-95% RH IPX4 Housing
#1 High Voltage	Adjustable 300-1500 VDC Regulation +-1%
#2 High Voltage	Adjustable 300-1500 VDC Regulation +-1%
Audio (click per event)	On--Off switch on front panel
Battery	6 "AA" Alkaline-400 hours nominal
Circuitry	Digital Microprocessor Controlled
Dimensions	5.25" (14cm) H x 4" (10cm) W x 7" (18cm) L
Weight	2.5 lbs. (1.2 Kilos) w/Batteries
Construction	Rugged Heavy Duty Cast Aluminum & Stainless Steel
Data Output (optional)	9 Pin Serial RS-232 - Panel switch manual data extraction (optional)

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The ERK-525 is a complete, portable radiation monitoring system designed to measure a broad range of radioisotope contamination under field conditions. The system contains a state of the art, microprocessor based digital display meter that auto ranges and can detect most of the common alpha, beta & gamma radiation that is likely to be present in an emergency situation. The DSM-525 is a dual probe survey meter that measures contamination and dose levels from micro-R to 200 mR/hr levels of gamma isotopes (Based on 137-Cs calibration). The instrument and accessories are contained in a very durable water resistant carrying case for easy storage and portability. The ERK-525 does not require changing probes to obtain the full operational benefits of the system; the user needs only to turn the selector switch to the desired probe and the rest of the operation is automatic.



HP-265 Alpha, Beta, Gamma Pancake Detector

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 (Cs ¹³⁷) -Requires linearization above 50 mR/hr
Window	1.7 ± 0.3 mg/cm ² mica, protected by a Copper 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)	C14 - 5%, SrY90 - 22%, Tc99 - 19%, P32 -32%
Energy Response	Energy Dependent
Sensitivity (Cs137 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)

MRSP-1 Plastic Scintillation Detector (0-10 mR/hr)

General Use	Low Level Gamma Dose Rate Measurements
Detector Type	1.5" dia x 1" Plastic Scintillator
CPM Range	0-999.9 Kcpm
Dose Range	1 μR/hr -10 mR/hr (Cs ¹³⁷)
Energy Response	40keV - 2 MeV (near tissue equivalent)
Sensitivity (Cs137 gamma)	≈ 100 cpm/fÉR/hr
Efficiency (4π)	≈ 2%
Background (10 μR/hr)	≈ 900 cpm
Operating Voltage	600 -1100 vdc
Dead Time	≈ 35 μsec
Compatibility	All Johnson Rate Meters
Environmental	-20°F [-28°C] to 140°F [60°C] 5-95% RH
Connector	BNC (other types available)
Dimensions	1.7" (4.25cm) Dia x 6" (15cm) L
Weight	4 oz (0.11 kg)

