

Long term
reputation in
the medical
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Ludlum
Model 14 CRK Response Kit
PART NUMBER:48-2653

- 5 Range Survey Meter
- Internal High Range G-M Detector
- Alpha Beta Gamma Pancake G-M
- 1" X 1" NaI(Tl) Gamma Scintillator
- Check Source
- Total Range from 0 - 2000 mR/hr



DETECTORS: Model 44-9 Pancake G-M, Model 44-2 Gamma Scintillator (*others available*)
METER DIAL: Typically 0 - 2 mR/hr and 6.8k cpm, BAT TEST (*others available*)
MULTIPLIERS: X0.1, X1, X10, X100, X1000
LINEARITY: Reading within plus or minus 10% of true value with detector connected
CONNECTOR: Series "C" (*others available*)
INTERNAL DETECTOR: Energy compensated G-M (*used with X1000 scale only*)
ENERGY RESPONSE: Within plus or minus 15% of true value between 60 keV - 3 MeV (*internal detector only*)
THRESHOLD: 30 mV plus or minus 10 mV
AUDIO: Built in unimorph speaker with ON/OFF switch (*greater than 60 dB at 2 feet*)
CALIBRATION CONTROLS: Accessible from front of instrument (*protective cover provided*)
HIGH VOLTAGE:900 volts
THRESHOLD: 30 mV plus or minus 10 mV
RESPONSE: Toggle switch for FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading
RESET: Push-button to zero meter
POWER: 2 each "D" cell batteries (*housed in sealed compartment that is externally accessible*)
BATTERY LIFE: Typically 600 hours with alkaline batteries (*battery condition can be checked on meter*)
METER: 2.5" (6.4 cm) arc, 1 mA analog type
CONSTRUCTION: Cast and drawn aluminum with beige polyurethane enamel paint
TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)
May be certified for operation from -40° F(-40° C) to 150° F(65° C)
SIZE: 6.5" (16.5 cm)H X 3.5" (8.9 cm)W X 8.5" (21.6 cm)L
WEIGHT: 3.5 lbs (1.6 kg) including batteries



INDICATED USE: Alpha beta gamma survey; Frisking
DETECTOR: Pancake type halogen quenched G-M
WINDOW: 1.7 plus or minus 0.3 mg/cm² mica
WINDOW AREA:
Active - 15 cm²
Open - 12 cm²
EFFICIENCY(4pi geometry): Typically 5%-C-14; 22%-Sr-90/Y-90; 19%-Tc-99; 32%-P-32; 15%-Pu-239
SENSITIVITY: Typically 3300 cpm/mR/hr (*Cs-137 gamma*)
ENERGY RESPONSE: Energy dependent
DEAD TIME: Typically 80 microseconds
COMPATIBLE INSTRUMENTS: General purpose survey meters, ratemeters, and scalars
OPERATING VOLTAGE: 900 volts
CONNECTOR: Series "C" (*others available*)
CONSTRUCTION: Aluminum housing with beige polyurethane enamel paint
TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)
May be certified for operation from -40° F(-40° C) to 150° F(65° C)
SIZE: 1.8" (4.6 cm)H X 2.7" (6.9 cm)W X 10.7" (27.2 cm)L
WEIGHT: 1 lb (0.5kg)



INDICATED USE: High energy gamma detection
SCINTILLATOR: 1" (2.5 cm) diameter X 1" (2.5 cm) thick sodium iodide (NaI)Tl scintillator
SENSITIVITY: Typically 175 cpm/microR/hr (*Cs-137*)
COMPATIBLE INSTRUMENTS: General purpose survey meters, ratemeters, and scalars
TUBE: 1.5:(3.8cm) diameter magnetically shielded photomultiplier
OPERATING VOLTAGE: Typically 500 - 1200 volts
DYNODE STRING RESISTANCE: 100 megohm
CONNECTOR: Series "C" (*others available*)
CONSTRUCTION: Aluminum housing with beige polyurethane enamel paint
TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)
May be certified for operation from -40° F(-40° C) to 150° F(65° C)
SIZE: 2" (5.1 cm) diameter X 7.3" (18.5 cm)L
WEIGHT: 1 lb (0.5kg)

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