

## Model 3001-3RK Emergency Response Kit

### Features

- Ready-to-Go Response Kit
- Ergonomic Survey Meter with 4 Selectable and Configurable Detector Settings
- Measures Alpha, Beta, and Gamma Contamination
- Convenient In-Field Detector Switching
- Includes
  - Model 3001 Multi-Detector Survey Meter
  - Model 133-6 Gamma Detector
  - Model 44-9 Alpha/Beta/Gamma Detector
  - Model 44-2 High Energy Gamma Detector
  - Check Source, Stick-On Source Holder,
  - Cable, Batteries, Transport/Carry Case

### Model 3001 Multi-Detector Survey Meter

**ALARMS:** two adjustable count rate, exposure/dose, and scaler alarm setpoints adjustable over the display range

**OVERLOAD:** high count rate saturation protection prevents false display of lower count rates

**LOSS OF COUNT PROTECTION:** after preselected time interval (default 60 seconds) of no pulses from detector, audible and visual alarms will be activated

**LCD DISPLAY:** 3 digit LCD with 20 mm (0.8 in.) digits, (k)cps, (k)cpm, (k)Bq, (k) dpm, (μ)(m)R/h, (μ)(m)Sv/h, low-battery indicator, MAX, ALARM, AUDIO

**DISPLAY RANGE:** 0.0 cps to 99.9 kcps; 0.00 cpm to 999 kcpm; 0.00 Bq to 99.9 kBq; 0.00 dpm to 999 kdpm; 0.00 μR/h to 999 R/h; 0.00 μSv/h to 999 Sv/h. Max Display can be set to limit display to calibrated range

**BACKLIGHT:** built-in ambient light sensor automatically activates LED backlight, unless internal dipswitch is set to continuous-On (will reduce battery life)

#### USER CONTROLS:

- ON/ACK: Extra-long press to turn ON; Short press to adjust audio level acknowledge alarms; long press to reset mode, extra-long press plus 3 seconds to turn OFF
- MODE: Short press alternates between available modes: RATE (display count rate), MAX (captures peak rate), and COUNT (captures rate or dose readings for a user-selectable preset count time from 0 to 10 minutes)
- DETECTOR: Short presses to change between available detector
- UNITS: Short press changes the units between count rate, dose/exposure, or disintegration, an extra-long press to change count time in COUNT mode
- LOG: Short press to log current display (requires Lumic Data Logger Kit), or initiate count in COUNT mode

**RESPONSE TIME:** selectable from 1 to 60 seconds, or Auto-Response Rate FAST or SLOW

**AUDIO:** approximately 4.5 kHz, click audio greater than 65 dB at 0.6 m (2 ft), alarm audio greater than 72 B

**POWER:** four alkaline "AA" batteries

**BATTERY LIFE:** 500 hours (as low as 60 hours with backlight configured for continuous-on), 16-hour low battery warning

**CONSTRUCTION:** high-impact plastic with water-resistant rubber seals and separate battery compartment

**ENVIRONMENTAL RATING:** NEMA (National Electrical Manufacturers Association) rating of 5x or IP (Ingress Protection) rating of 53

**PHYSICAL:** 16.5 x 11.4 x 21.6 cm (6.5 x 4.5 x 8.5 in.); 0.7 kg (1.6 lb) (excluding clips and detectors)



### Model 44-9 Alpha/Beta/Gamma Detector

**DETECTOR:** pancake-type, halogen-quenched GM

**EFFICIENCY (4π):** 5% for <sup>14</sup>C; 22% for <sup>90</sup>Sr/<sup>90</sup>Y; 19% for <sup>99</sup>Tc; < 1% for <sup>99m</sup>Tc, 32% <sup>32</sup>P; 1% for <sup>239</sup>Pu

**SENSITIVITY (<sup>137</sup>Cs gamma):** 3300 cpm/mR/hr

**ENERGY RESPONSE:** energy dependent

**BACKGROUND:** 60 cpm

**DEAD TIME:** 80 microseconds

**OPERATING VOLTAGE:** 900 Vdc

**PHYSICAL:** 4.6 x 6.9 x 27.2 cm (1.8 x 2.7 x 10.7 in.); 0.5 kg (1 lb)

### Model 44-2 Gamma Detector

**DETECTOR:** scintillator, 2.5 x 2.5 cm (1 x 1 in.) NaI(Tl)

**EFFICIENCY:** <sup>125</sup>I for 7%; <sup>57</sup>Co for 10%; <sup>137</sup>Cs for 3%; <sup>60</sup>Co for 3%

**SENSITIVITY:** typically 175 cpm/μR/hr (<sup>137</sup>Cs gamma)

**ENERGY RESPONSE:** energy dependent

**BACKGROUND:** 1900 cpm

**OPERATING VOLTAGE:** 500 to 1200 volts

**PHYSICAL:** 5.1 x 18.5 cm (2 x 7.3 in.); 0.5 kg (1 lb)

### Model 133-6 Gamma Detector

**DETECTOR:** energy-compensated GM, 30 mg/cm<sup>2</sup> stainless steel (halogen quench)

**LINEAR RANGE:** 40 μSv/h to 400 mSv/h (4 mR/hr to 40 R/hr)

**SENSITIVITY:** 1.8 cpm/μSv/h (18 cpm/mR/hr) (<sup>137</sup>Cs gamma)

**BACKGROUND:** 1 cpm or less

**ENERGY RESPONSE:** within 15% of true value (60 keV to 3 MeV)

**DEAD TIME:** typically 50 microseconds

**PHYSICAL:** 2.3 x 10.2 cm (0.9 x 4.0 in.); 0.090 kg (0.20 lb)