

Model 2241-3RK

Emergency Response Kit



The 2241-3RK Emergency Kit packages all the basic radiation measurement tools you're likely to need to handle a radiological emergency into a convenient carrying case to facilitate a quick response when required. The kit includes Ludlum's digital, auto-ranging, and versatile Model 2241-3 Ratemeter/Scaler that facilitates changing probes in the field. A convenient rotary switch located on the front panel permits the responder to select the appropriate operating parameter setup for the detector in use.

Detectors included in the kit are:

- Model 133-7 energy compensated GM tube to perform exposure rate measurements up to 100 R/hr
- Model 44-9 alpha beta gamma GM pancake probe for contamination measurements
- Model 44-2 high-sensitivity gamma scintillator for locating the source of the high ambient readings

The carrying case supplied with the kit is air and watertight, with cutouts for each device including a ¹³⁷Cs check source to verify proper operation of the equipment.

SPECIFICATIONS:

RATEMETER: can display in R/hr, Sv/h, cpm, or cps

SCALER: activated by pushbutton in handle (count time adjustable from 1-9999 seconds in 1-second intervals)

DISPLAY: 4-digit LCD display with 1.3 cm (0.5 in.) high digits, separate annunciators for display units, alert, alarm, low battery, detector overload, counting overflow, and scaler counting, pushbutton activates a backlight

DISPLAY RANGE: auto ranging from 0.0 μ R/hr-9999 R/hr; 0.000 μ Sv/h-9999 Sv/h; 0 cpm-999 kcpm; or 0 cps-100 kcps

CONTROLS:

- SCALER/RATEMETER: toggles between the Scaler and the Ratemeter operating modes

- AUDIO: On/off toggle switch

- FAST/SLOW: response toggle switch

- DETECTOR SELECTOR: switches between Off, and Detectors 1 through 4

- LIGHT: button activates LCD backlight for predetermined interval

- RESET: button resets the count rate to zero

ALARMS: indicated on display and by audible tone

- Ratemeter Alert/Alarm

- Scaler Alarm: adjustable from 1-999999 counts

BATTERY LIFE: typically 200 hours with alkaline batteries (low battery indicated on display)

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)

SIZE: 43.2 x 29.7 x 15.7 cm (17 x 11.7 x 6.2 in.) (H x W x D)

WEIGHT: 3.08 kg (6.8 lb)

FEATURES:

- Ready-to-Go Kit
- Auto-Ranging Digital Ratemeter/Scaler
- Measures Alpha Beta Gamma Contamination
- Measures Energy Compensated Exposure Rate
- Includes a High-Sensitivity Gamma
- Probe for Quickly Finding Sources
- Convenient Detector Switching