

## Model 26-RK Emergency Response Kit



Part Number: 48-4419

### Features

- Ready-To-Go Kit in Rugged Case
- Two Friskers for Measuring Contamination on People and Objects
  - Model 26-3 with Alpha-Beta-Gamma GM Detector
  - Model 26S with Gamma Scintillation Detector
  - Simple Three-Button Operation
  - Count Rate, Dose/Exposure, and Counting Alarms
  - Includes Dose Filter for Model 26-3

### Introduction

The Model 26-RK consists of two friskers, the Model 26-3 with an integrated pancake GM detector and the Model 26S with an integrated scintillation detector, packaged in a rugged transport and storage case. These integrated instruments are cable-less thereby simplifying the process of frisking people and objects.

### Applications

**Alpha & Beta Contamination:** Use the Model 26-3 without dose filter for measurements of possible alpha and beta contamination.

**Gamma Contamination:** Use the Model 26S to find low levels of gamma radiation or to find gamma sources.

**Ambient Equivalent Dose:** Use the Model 26-3 with dose filter to measure ambient equivalent dose, up to 1 Rem/hr.

### Model 26-3

**DETECTOR:** Pancake GM, stainless steel screen (79% open)

**WINDOW AREA:** Active - 15.51 cm<sup>2</sup> (2.4 in<sup>2</sup>); Open - 12.26 cm<sup>2</sup> (1.9 in<sup>2</sup>)

**EFFICIENCY (4π):** Alpha - <sup>239</sup>Pu: 11%

Beta - <sup>99</sup>Tc: 18%, <sup>32</sup>P: 32%, <sup>14</sup>C: 2%, <sup>90</sup>Sr/<sup>90</sup>Y: 22%, <sup>125</sup>I: 0.2%

Gamma - 5.5 cps per μSv/h (3300 cpm per mR/hr) (<sup>137</sup>Cs), <sup>99m</sup>Tc: ≤ 1%

### Model 26S

**DETECTOR:** 2.5 x 1.9 cm (1 x 0.75 in.) CsI(Tl) scintillator

**GAMMA SENSITIVITY:** 165 kcpm per mR/hr or 27.5 cps per μSv/h (<sup>137</sup>Cs)

**ENERGY RANGE:** from 40 keV to 2 MeV

**EXPOSURE LINEARITY:** ±10% from background to 200 μSv/h (20 mR/hr)

**COUNT RATE LINEARITY:** ±10% from 8 cps to 8 kcps (200 cpm to 999 kcpm)

### Common Specifications

**DISPLAY:** 3½ digit LCD with large 12.7 mm (0.5 in.) digits

Units: (k)cps, (k)cpm, (k)dpm, (k)Bq, mR/hr, μSv/h

Indicators: low-battery indicator, MAX, ALARM

**RANGE:** 0.00 cps to 19.9 kcps; 0 cpm to 999 kcpm; 0.00 Bq to 19.9 kBq; 0 dpm to 999 kdpm;

26-3: 0.00 to 1999 μSv/h; 0.00 to 1,000 mR/h

26S: 0.00 to 200 μSv/h; .000 to 20 mR/hr

**BACKLIGHT:** built-in ambient light sensor automatically activates

low-power LED backlight, or may be configured for 'Continuous On' operation (will reduce battery life)

**CONTROLS:** three pushbuttons

- ON/OFF/QUIET: press to turn ON, tap to alternate between 'click' audio and QUIET, hold for OFF

- MODE: select RATE (count rate), MAX (captures peak rate), or COUNT (user-selectable count time from 0 - 20 min.)

- UNITS: changes units between count rate (cpm, cps), dose/exposure (μSv/h, mR/hr), or activity (dpm, Bq)

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

**ALARMS:** count rate and scaler alarm setpoints adjustable over the display range

**LOSS OF COUNT PROTECTION:** after 60 sec. of no pulses from detector, unit will flash a zero reading and alarm audio will be triggered

**AUDIO:** greater than 60 dB at 0.6 m (2 ft)

**POWER:** two "AA" batteries

**BATTERY LIFE:** approximately 200 hours of operation

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

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

**ENVIRONMENTAL RATING:**

26-3: NEMA 3 / IP 53

26S: NEMA 4 / IP 55

**SIZE (H x W x L):** 4.6 x 6.9 x 27.2 cm (1.8 x 2.7 x 10.7 in.)

**WEIGHT:**

26-3: 0.45 kg (1.0 lb)

26S: 0.35 kg (0.75 lb)