LUDLUM MEASUREMENTS, INC.

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^2 (2.4 in^2); Open - 12.26 cm^2 (1.9 in^2)
EFFICIENCY (4π): Alpha - ^{239}Pu: 11%
Beta - ^{99}Tc: 14%, ^{32}P: 32%, ^{14}C: 2%, $^{90}Sr/^{90}Y$: 22%, ^{125}I: 0.2%
Gamma - 5.5 cps per µSv/h (3300 cpm per mR/hr) (^{137}Cs), ^{99m}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 (^{137}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)

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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